

FOR FURTHER TRANS 1496
Final Report A054496

APSO

DEVELOPMENT OF AIR FORCE FLIGHT SAFETY MODELS

(4) E

Volume 16

FEASIBILITY OF ADAPTING MODEL TO ROTARY WING AIRCRAFT;

EXAMPLE: UH-1N

June 1976



Prepared for

SERVICE ENGINEERING DIVISION
SAN ANTONIO AIR LOGISTICS CENTER
Kelly Air Force Base, Texas

Under Contract F09603-72-A-1132-SA01

Publication C54-01-1-1406

ARINC RESEARCH CORPORATION

This document has been approved for public release and sale; its distribution is unlimited.

SECURITY CLASSIFICATION OF THIS PAGE (Phon Data Entered) READ INSTRUCTIONS REPORT DOCUMENTATION PAGE BEFORE COMPLETING FORM I. REPORT NUMBER 2. GOVT ACCESSION NO. 3. RECIPIENT'S CATALOG NUMBER C54-01-1-1406 5. TYPE OF REPORT & PERIOD COVERED TITLE (and Subtitle) DEVELOPMENT OF AIR FORCE FLIGHT SAFETY MODELS VOLUME 16 6. PERFORMING ORG. REPORT NUMBER C54-01-1-1406 8. CONTRACT OR GRANT NUMBER(s) 7. AUTHOR(s) Not Listed F09603-72-A-1132-SA01 10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS 9. PERFORMING ORGANIZATION NAME AND ADDRESS ARINC Research Corporation 2551 Riva Road Annapolis, Maryland 21401 CONTROLLING OFFICE NAME AND ADDRESS 12. REPORT DATE SERVICE ENGINEERING DIVISION June 1976 SAN ANTONIO AIR LOGISTICS CENTER 13. NUMBER OF PAGES Kelly Air Force Base, Texas 14. MONITORING AGENCY NAME & ADDRESS(II different from Controlling Office) 15. SECURITY CLASS. (of this report) SERVICE ENGINEERING DIVISION SAN ANTONIO AIR LOGISTICS CENTER UNCLASSIFIED 15a. DECLASSIFICATION/DOWNGRADING Kelly Air Force Base, Texea 16. DISTRIBUTION STATEMENT (of this Report) UNCLASSIFIED/UNLIMITED 17. DISTRIBUTION STATEMENT (c: the abstract entered in Block 20, if different from Report) 18. SUPPLEMENTARY NOTES 19. KEY WORDS (Continue on reverse side if necessary and identify by block number) 20. ANTRACT (Continue on reverse side if necessary and identify by block number) The feasibility of applying the Flight Safety Prediction Technique to rotary wing aircraft is demonstrated through its application to the UH=1N helicopter. A complete safety model, compatible with the computer program used for a fixed wing aircraft, is presented.

DO , FORM 1473 EDITION OF 1 NOV 65 IS OBSOLETE

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered)

051-01-1-1106

DEVILOPMENT OF AIR PORCE PLICHT CAPTRY NODELS

Not Listed

0.27-07-17-09

F09603-72-A-1132-8A01

ARING Research Corporation 2551 Riva Road Annapolis, Maryland 21101

SHEVICE ENGINEERING DIVISION
SAN ANTONIO AIR LOGISTICS CHUTCHE
Kelly Air Force Base, Texas

SERVICE PROTUCEFING DIVISION SAN ANTONIC AIR LOCISTICS CONTER Felly Air Porce Page, Teves

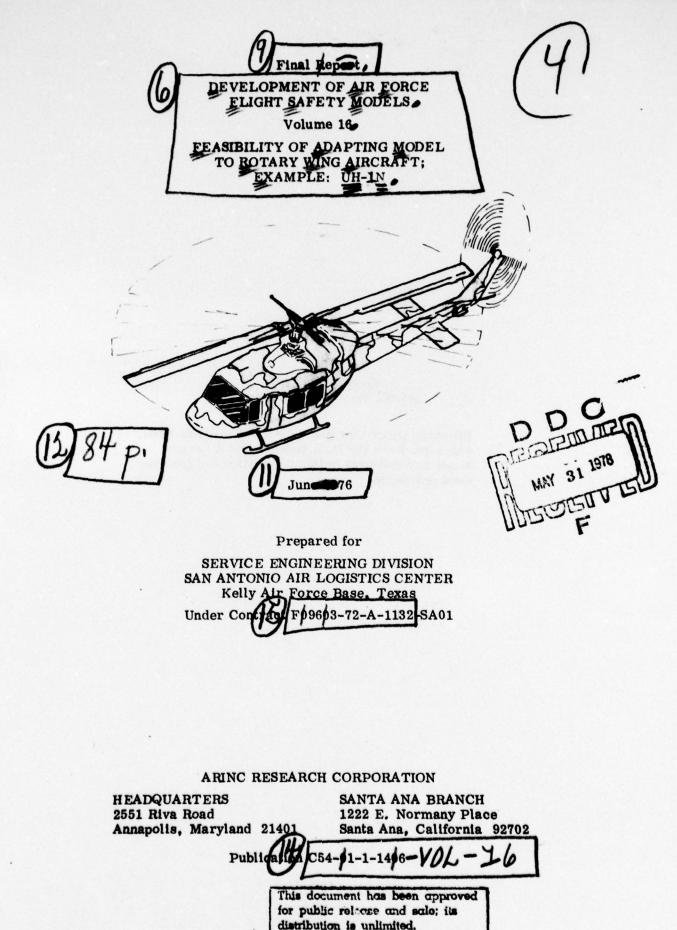
June 1976

-

CHITTERATORS

CELLINI MILITIO VOLUM

The feasibility of applying the Flight Safety Prediction Technique to rotal vior sircraft is demonstrated through its application to the UW=1M helicopter. A complete safety modes, compatible with the computer program used for a fixed vice aircraft, is presented.



ulf

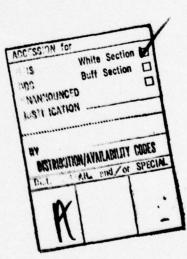
Copyright © 1976 ARINC Research Corporation

Prepared under Contract F09603-72-A-1132-SA01, which grants to the U.S. Government a license to use any material in this publication for government purposes.



ABSTRACT

The feasibility of applying the Flight Safety Prediction Technique to rotary wing aircraft is demonstrated through its application to the UH-1N helicopter. A complete safety model, compatible with the computer program used for a fixed wing aircraft, is presented.



Safety-related terms used in this report are defined below. Certain of these terms are expressed in somewhat different words later in the text, depending on the context of the discussion; but the meaning will be consistent with the definitions given here.

Criticality	- A numerical index of the significance of equipment failure history relative to aircraft safety. As an analysis parameter, criticality can be considered proportional to the likelihood that an item will fail and thereby cause an accident. It is the product of the failure probability and the sensitivity of an
	the failure probability and the sensitivity of an equipment item.

Dependency	-	See	"link	dependency".
------------	---	-----	-------	--------------

FSPT	- Flight Safety Prediction	Technique
------	----------------------------	-----------

Flight phases	- Discrete segments of the aircraft mission profile. For rotary wing aircraft, the flight phases are
	defined as 1) startup and taxi, 2) takeoff, 3) climb, 4) cruise, 5) tactics, 6) cruise, 7) descent, 8) land, and 9) taxi and shutdown.

Functional analysis -	The determination of equipment relationships to air							
	craft functions performed, and the interrelationships of these functions.							

Functional path	The compilation of functional relationship in which one function is identified as being dependent upon						
	another.						

Link dependency	The conditional probability o failing, given that a particula	
	dependent upon has failed.	

Provisory condition -	Operation of an aircraft in a mode or environment
	such that the safety-related importance of certain
	equipments is increased. Provisory conditions
	include icing, night flights, supersonic flight, etc.

Provisory factor - The probability that a provisory condition exists. Also used to describe the coded notation serving to indicate that a functional relationship is dependent on a particular provisory condition.

Safety sensitivity

- Same as "sensitivity".

Sensitivity

- A quantitative indication of the degree of safety degradation to be expected if a function or equipment fails. The more specific terms are "functional sensitivity" or "equipment item sensitivity".

FOREWORD

This document is part of a 16-volume report describing the application to specific aircraft of ARINC Research Corporation's Flight Safety Prediction Technique (FSPT). The technique was developed under previous Air Force contracts (see Appendix A). The present effort, undertaken in 1972 under Contract F09603-72-1132-SA01, has led to further refinement of the FSPT through its broad application to many different types of aircraft. The flight safety models generated for these aircraft are presented in individual volumes of this report as follows:

Volume	Aircraft	Volume	Aircraft
2	T-38	10	В-52G, Н
3	F-111A,	11	C-130E
	FB-111A	12	KC-135
4	A-7D	13	C-5A
5	F-4D, E; and RF-4C	14	T-39
6	C-141	15	F-15
7	A-37	16	Rotary Wing (Feasibility Study)
8	O-2		(reasibility Study)
9	OV-10		

Volume 1, an overall summary of this effort, will be issued at the end of the contract period.

SUMMARY

This study concerned the feasibility of applying the Flight Safety Prediction Technique to rotary wing aircraft. It was found that the model developed for fixed wing aircraft was applicable to helicopters without change to the basic mathematical structure or computer process. No change in data requirements are necessary, since the same screening methods are used to generate the UH-1N malfunction rate as for other aircraft.

To assure that the study fully documented all aspects of a model of a rotary-wing aircraft, and that the model would perform as for previous fixed-wing models, a specific helicopter type - the UH-1N - was chosen for analysis.

Primary areas of modification to the FSPT to accommodate rotary wing aircraft included:

- a. Redefinition of certain upper level functions in accordance with rotary-wing systems operation.
- b. Redefinition of flight phases to conform with rotary-wing mission profiles.
- c. Review of sensitivity assignments in light of autorotative and "land-most-anywhere" criteria.
- d. Redefinition of a provisory factor.

CONTENTS

ABS	TRAC	т.																					111
GLO	SSAR	Υ							•														v
FOF	REWO	RD .		٠																			vii
SUN	IMAR	Y													•	•							ix
1.	INTR	ODUCT	TION.																				1-1
	1.1 1.2	Backg					:	:	:		:	:	:	:	:	:	:	:	:		:	:	1-1 1-2
2.	MET	HODOL	OGY	UNI	ER	LY	IN	G F	SP	Т													2-1
	2.1 2.2 2.3	Defini Mathe Sensit	matic	al B	asi	s o	f F	SP													•	:	2-1 2-1 2-2
3.	MOD	EL DE	VELO	PMI	ENT	г.																	3-1
	3.1	Functi Major							As									:	:	:		:	3-2 3-4
		3. 2. 1 3. 2. 2 3. 2. 3 3. 2. 4 3. 2. 5	Link Prov Com	De viso pute	pen ry :	der Fac Pro	eto:	As rs ssir	sig ng	mm :	ent		:	/.	:				: : :	: : :	: : :		3-4 3-7 3-7 3-7 3-8
4.	UH-1	N MOD																					4-1
API	PENDI	X A:	Histor	rica	l Su	ımı	mai	ry o	of I	SP	Т												A-1
API	PENDI	х в:	Form	ulat	ion	of	Cr	itic	ali	ty-	Ass	ses	sm	ent	Te	ech	pin	ue					B-1
API	PENDI	X C:	FSPT	Doc	eum	en	tati	on	Me	tho	ds												C-1
API	ENDI	X D:	FSPT	Doc	eum	en	tati	on	of	UH	-1N	A	irc	raf	t.								D-1

ILLUSTRATIONS AND TABLES

Figure									Page
1-1	Example of Criticality Ranking Process								1-2
3-1	Activities and Data Inputs to Flight Safety Cr Assessment	itic	ali	ty •					3-1
3-2	Hierarchical Structure of Aircraft Functions								3-3
3-3	Phases of Aircraft Mission				•	•	•	٠	3-6
Table									Page
3-1	Provisory Factor Codes								3-8
1-1	UH-1N System Documentation								4-1

1.1 BACKGROUND

The Flight Safety Prediction Technique developed by ARINC Research Corporation provides for assessment of the impact on flight safety of the failure of specific items of equipment within an aircraft. In the FSPT, mathematical modeling procedures are applied for processing aircraft-equipment failure data to yield a quantified index ranking safety-related problems on the basis of their likelihood of occurrence and the resulting degradation in the aircraft's capability to fly.

The ranking factor is called "criticality", which in its simplest form is the product of the failure probability and flight safety sensitivity of an equipment. (A more detailed definition appears in Section 2 and Appendix B.) The failure probability inputs are from basic failure data sources, AFM 66-1 and 65-110. The sensitivity estimates are derived by the following process:

- a. Systematic analysis of aircraft functions to determine those essential to flight safety;
- b. Identification of the hardware required to perform these functions;
- c. Evaluation of the safety significance of the hardware in performing these essential aircraft functions.

The criticality values resulting from this approach provide a relative ranking of all malfunctions with respect to their safety significance. Figure 1-1 is a simplified example of how three equipment items would be ranked on the combined basis of their failure probability and safety sensitivity.

The methodology has the ability to rank malfunction problems currently and continuously by their accident potential. This ranking, based on criticality assessment can provide the basic parameters necessary for:

- Identifying equipment items whose failure history and application pose a threat to aircraft safety;
- b. Quantifying the degree of threat associated with each equipment item;
- c. Evaluating and tracking the effectiveness of modifications to the aircraft;
- d. Assessing safety benefits versus the cost of proposed aircraft modifications, changes in maintenance or flight operations, or alternative aircraft designs.

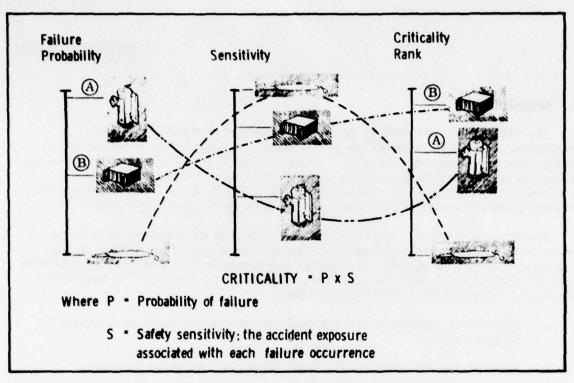


Figure 1-1. Example of Criticality Ranking Process

1.2 FORMAT OF REPORT

In this report, Section 2 will briefly describe the mathematical concepts underlying the Flight Safety Prediction Technique. Section 3 will discuss the model development and utilization of the technique in application for fixed-wing and then for rotary-wing aircraft. The similarities and differences will be noted. Section 3 will also discuss the general application of these concepts to the development of safety models for fixed- and rotary-wing aircraft, while Section 4 describes application activities related specifically to the UH-1N helicopter.

Appendix A summarizes the contractual history of the development of the FSPT; Appendix B discusses (as a supplement to Section 2) mathematical considerations underlying the technique; Appendix C discusses FSPT documentation methods; and Appendix D presents functional relationship diagrams and a listing of keypunch cards that comprise the safety model documentation for the UH-1N helicopter.

This section discusses the basic definitions and mathematical concepts associated with the Flight Safety Prediction Technique.

2.1 DEFINITION OF SAFE AIRCRAFT

To develop a relative measure of aircraft safety degradation resulting from specific equipment malfunctions, it is first necessary to define a "safe" aircraft. For purposes of the FSPT assessments, an aircraft is assumed to be in a safe condition if it is operating within its prescribed performance limits. Conversely, an aircraft operating (or about to operate) outside these limits is considered to be unsafe, i.e., in a condition where property damage and personal injury may result.

The safety prediction methodology does not attempt to assess the extent of possible personal injury or aircraft damage resulting from an unsafe condition. Neither does the concept consider ejection capability, parachutes, life rafts, etc., which do not make an aircraft safer per se but provide for the survivability of the aircrew when the aircraft is unsafe. Collision is also excluded from consideration because of the complexity of the interrelationships between pilot, aircraft equipment, ground surveillance, and traffic density.

2.2 MATHEMATICAL BASIS OF FSPT

The probability of an accident caused by the failure of an element can be expressed as the probability of the element failing multiplied by the conditional probability that the failure of the element will cause an accident. Stated in equation form:

$$P(A,J) = P(j)P(A|j)$$
 (1)

where:

P(A, J) = Probability of an accident due to failure of just the jth element*

P(j) = Probability that element j fails

P(A)) = Probability of an accident given that the jth element fails.

^{*}In this and subsequent discussions, unless otherwise stated, expressions such as "failure of the jth element" should be interpreted to mean: failure of only the jth element, assuming all other elements are not failed.

This equation reflects the basic relationships addressed in the FSPT where:

- a. The criticality of the jth element is an estimate of P(A, j)
- b. The sensitivity of the jth element is an estimate of P(A|j)
- c. The failure probability of the jth element is an assessment of P(j).

Because an element's effect on safety may depend on the mission phase (see Section 3.2.1), the above model can be expanded to:

$$P(A,j) = \sum_{k=1}^{N} P_{j,k} P(A|j,k)$$
 (2)

where

N = Number of mission phases

P_{i,k} = Probability that the jth element is failed in the kth phase

P(A|j,k) = The jth element's sensitivity in the kth phase.

To identify the importance of discrete elements to aircraft safety, two flight profiles consisting of nine distinct phases were defined, one for fixed-wing and the other for rotary-wing aircraft. The phases are discussed in Section 3.2.1.

To utilize equation 1, it was necessary to develop a method for obtaining the values of P(A|j,k), the probability that a malfunction in element j during mission phase k will result in an accident. This method in turn requires the estimation of two parameters: the probability of accident if a major function is not available during each mission phase, and the dependence of the major function on subfunctions and elements during each such phase.* Each function and equipment item thus derives its sensitivity value from its relationship to the major function(s) dependent upon it.

2.3 SENSITIVITY ASSIGNMENTS

A great deal of information is available on the causes of aircraft accidents, but little exists from which to make the sensitivity assignments, P(A|j). These assignments are therefore largely subjective, based on the analyst's knowledge of the system and any information he may have on previous accident history. The sensitivity assignments are reviewed (and revised as necessary) by an Air Force/contractor team working on a particular model to ensure that consistent criteria have been followed. The team review and negotiation of sensitivity assignments are the mechanism by which the value becomes sufficiently objective for use with the model. This negotiation considers all of those top level functions as a group, and reassigns sensitivity values as necessary to assure that the most objective proportionality is

^{*}For a more detailed discussion of the mathematics of the FSPT, see Appendix B.

attained for the particular aircraft model. The same major-function sensitivity values are used for major functions on all aircraft models where configuration and mission profiles permit.

The development of criticality rankings for the various elements, or j's, is dependent upon the ability to quantify the failure probability, P(j), and the element sensitivity, P(A|j), for each element. Since the intent of the concept is to provide a relative safety ranking of all malfunctions, it is not necessary to develop absolute values for P(A|j). If the sensitivity values developed are correct relative to each other, a proper criticality ranking will be established. It is intended that criticality be an index proportional to P(A,j) and therefore provide the same relative rank ordering of elements. The major reasons for proportionality, rather than equality, are:

- a. The FSPT does not account for the effect of extraordinary pilot intervention to prevent an accident in case of equipment malfunction.
- b. Criticality quantification was limited in its treatment of simultaneous occurrence of independent, primary failures.

While strict proportionality cannot be mathematically proven, it is believed that the criticality rankings provide reasonable relative measures of equipment problem potential.

Figure 3-1 summarizes the approach to the assessment of flight-safety criticality of aircraft equipment. Both the Air Force and contractor participate in this assessment. The first contractor activity is the identification of all functions that the aircraft is expected to perform and the determination of their interrelationships. Next, each functional relationship is documented, and then sensitivity assignments are made at the major functional levels. (Below these levels, link dependency values are estimated; see Section 3.2.2.) This process is carried out until each work unit code (WUC) associated with a major function has been identified with respect to the function performed, and dependencies have been estimated. Computer processing procedures calculate the safety sensitivity for each WUC item, combine these values with the operation and failure data input by the Air Force, and produce the equipment criticality ranking.

The above comments and relationships hold for both fixed wing and rotary wing aircraft. As will be shown in the following sections, a number of modifications in the areas of functional analysis and major function sensitivity assignment were necessary to adapt the model to accommodate rotary wing aircraft. The modifications were made to address the different physical characteristics and flight modes of the rotary wing aircraft.

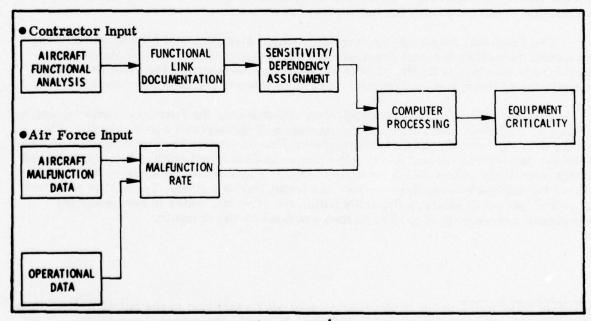


Figure 3-1. Activities and Data Inputs to Flight Safety Criticality Assessment

3.1 FUNCTIONAL ANALYSIS

Functional analysis entails the systematic identification of the relationships of hardware to the functions performed by the aircraft as documented in the aircraft Technical Orders. Tabulated for each aircraft function are the equipments necessary for its performance as well as all outputs required for other systems. The complexity of the functional interdependencies of an aircraft requires the use of a systematic accounting procedure, as discussed below, to assure that all relationships have been identified and that no functional paths have been overlooked.

Certain top-level or primary functions are applicable to all aircraft types, both fixed and rotary wing, and serve as the basis for a safety analysis. As shown in Figure 3-2, the basic differences between fixed and rotary wing aircraft are evidenced at the second or major-function level.

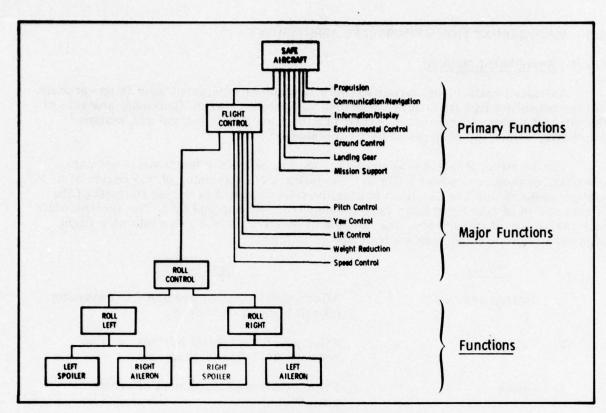
Below the major function level, the functional identification and structure are tailored to the particular equipment and functional relationships unique to the aircraft modeled. In Figure 3-2b, for example, the major function "Main Rotor Controls" is subdivided into "Cyclic Controls" and "Collective Controls". This structure is that applicable to a UH-1N aircraft in which cyclic controls provide primary aerodynamic life, and collective controls provide pitch and roll movements. Finally, each item in the aircraft WUC ("-06") manual is identified with respect to the function it performs.*

Except as noted above, documentation for a rotary wing aircraft can be accomplished just as for a fixed wing aircraft. Every function and every WUC included in the model receives an "alpha designator" unique to that aircraft model. Because of the large number of alpha designators required in a model, an indenturing system is utilized to prevent duplication. However, the location in the hierarchical structure and the number of characters in the alpha designators often do not correlate, since correlation is not necessary for subsequent processing.

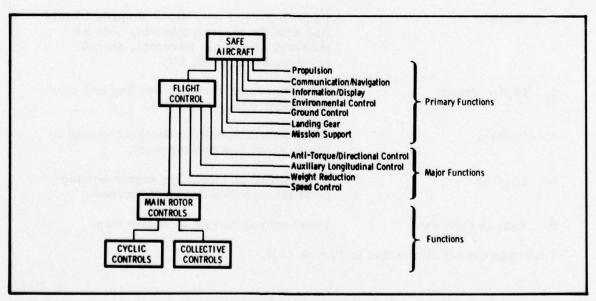
The functional relationships from the system diagram, and identification of the equipment necessary for each function, are next documented in an 80-column punch-card format (see Appendix C). The total functional diagram for the aircraft is then a compilation of the system diagrams, with one punchcard for each functional link.

With the aircraft functions completely documented, the functional paths by which a piece of equipment contributes to the operation of the aircraft can be identified by computer. Performing the path-identification/documentation task by computer proves to be not only useful but necessary — the human analyst could neither keep track of nor assign sensitivity values to all functional paths. The machine processing capability allows the analyst to consider only one functional link at a time. The ability to follow all of the functional interrelationships within the aircraft, which is necessary for meaningful assessment of safety, is then provided by the computer.

^{*}Certain WUC items in the "-06" manual may not be included in the safety model, these items being either 1) eliminated by TCTOs, 2) purely structural items in the 11000 series, 3) necessary only for survivability or ejection, or 4) of lower indenture than the LRU level, where computer data screening eliminates failure reports.



a. Fixed Wing Aircraft Functions



b. Rotary Wing Aircraft Functions

Figure 3-2. Hierarchical Structure of Aircraft Functions

3.2 MAJOR-FUNCTION SENSITIVITY ASSIGNMENT

3.2.1 Assignment Method

As stated earlier, the sensitivity of a function or equipment item is an estimate of the probability that its failure will cause an accident. From functional analysis of the aircraft under consideration, major functions are identified and are assigned sensitivity values for each phase of the mission.

The relative importance of primary, major, and other functions is not necessarily constant throughout a flight. The failure, for example, of one engine of a multi-engine aircraft is far more critical on takeoff than it is during the rest of the flight, and is of relatively little importance during startup and taxi. To accommodate this variability of importance, the mission of an aircraft is divided into nine flight phases, which for fixed wing aircraft are as follows:

	Phase	Description
1.	Startup and taxi	After engine rotation and prior to assuming takeoff heading on runway.
2.	Takeoff	After assuming takeoff heading; roll on runway; and prior to gear-up.
3.	Climb	From gear-up to attainment of cruise altitude.
4.	Cruise outbound	From the end of climb to initiation of tactical phase.
5.	Tactical	Performance of operations uniquely identi- fied with the aircraft mission, such as gunnery, air-to-air intercept, stores release, cargo drop, etc.
6.	Cruise return	After achieving recovery heading and prior to descent-power reduction.
7.	Descent	From descent-power reduction to break or localizer engage homing point.
8.	Landing	From break or localizing engage homing point through stop or runway turnoff.
9.	Taxi and shutdown	From runway turnoff to engine stop.

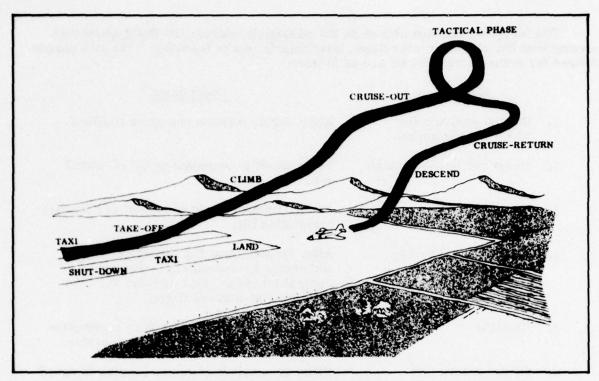
These phases are illustrated in Figure 3-3a.

The foregoing mission phases do not adequately address the flight conditions encountered during rotary wing flight, particularly that of hovering. The nine phases defined for rotary wing aircraft are as follows:

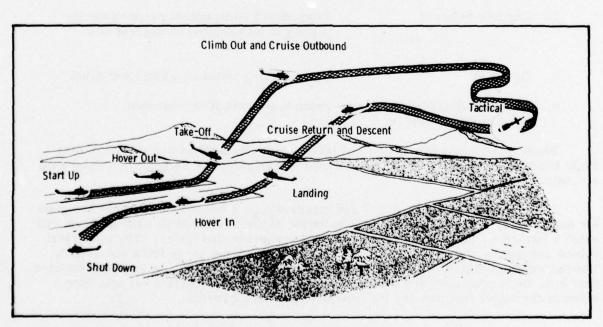
	Phase	Description
1.	Startup (and taxi for wheeled helicopters)	After engine rotation and prior to liftoff.
2.	Hover out (airborne taxi)	From liftoff to commencement of takeoff run.
3.	Takeoff	From commencement of takeoff run through translation lift.
4.	Climb out and cruise outbound	After translational lift through climbout and cruise to tactical site. For non-tactical missions, this includes the first half of the at-altitude flight.
5.	Tactical	From arrival at tactical site to assumption of heading and altitude for return cruise.
6.	Cruise return and descent	From assumption of return heading to speed reduction in preparation for landing. For nontactical missions, this identifies the last half of the at-altitude flight.
7.	Landing to hover	From speed reduction in preparation for
		landing to termination of descent at a hover.
8.	Hover in	From landing termination to touchdown.
9.	Shutdown (includes taxi-in for wheeled helicopters)	From touchdown to engine stop.

These phases are illustrated in Figure 3-3b. By maintaining a total of nine flight phases, the model input-punchcard format remains the same as for fixed wing aircraft.

For both aircraft types (fixed and rotary wing), a sensitivity value is assigned for each phase, representing the best estimate of the likelihood that the aircraft will enter a hazardous mode if the function is not present in that phase. The numerical values assigned are proportional rather than absolute, and range from 0.0 to 1.0. The keypunch card limits this assignment to increments of 0.1. Increments smaller than 0.1, when required, are assigned by defining a quasi-function for insertion between the major function and its dependent primary function.



a. Fixed Wing Aircraft Mission



b. Rotary Wing Aircraft Mission

Figure 3-3. Phases of Aircraft Mission

3.2.2 Link Dependency Assignment

Link dependency is defined as the probability that the loss of a function will result in the loss of a dependent function. (For a more detailed discussion of this term, see Appendix B.) The assignment of link dependency values requires knowledge of the operation of specific aircraft because it is concerned only with functional levels below the "major" category. At this lower level, no evaluation is made of the impact on flight safety of the loss of functions, and no special procedures are required to accommodate rotary wing aircraft. Instead, the effect of the loss of one function on the performance of another function becomes the evaluation criterion.

Like sensitivities, link dependency values are assigned in increments of 0.1. Additionally, the method of attenuation used in assigning sensitivity values can also be applied to link dependencies.

3.2.3 Provisory Factors

The sensitivity of major functions with respect to aircraft safety — and at the lower levels, the link dependency between functions — can be dependent on external influences and aircraft operating conditions. To accommodate these external influences, a set of provisory factors has been identified. An example would be a windshield anti-ice system, which has a safety sensitivity close to 1.0 during landing under icing conditions but a negligible effect on a dry, warm day.

Under such circumstances, the procedure is to assign the worst-case value (assuming the condition exists). During model exercise the likelihood that the condition exists can be "read-in", thereby allowing the sensitivity value to be assigned by the computer based on the likelihood of the condition and the probability that the higher level function will therefore be lost. For the rotary wing safety model, one provisory factor was redefined (from its fixed wing form) to accommodate unique helicopter operating conditions. This factor is identified as Code C, in Table 3-1, which lists the standard provisory factors used in FSPT models. The specific use of the provisory factor B as applied to helicopters refers to operations in that portion of the flight envelope where auto-rotation is not available as a backup to the propulsion and auto-torque functions.

3.2.4 Computer Processing

For any aircraft, the documentation of a flight safety analysis by ARINC Research consists of functional diagrams, coded functional tabulations, a functional data processing card deck, and a machine-prepared printout of the card deck data. Under this contract the documentation is then sent to San Antonio Air Logistics Center (SA/ALC).

SA/ALC processes the functional data card deck through a series of computerized operations, as follows:

- a. A functional deck edit is accomplished to identify format or logic errors.
- b. A path identification/documentation run is made that traces all possible paths associated with each function and calculates the numerical sensitivities by flight phase down to the WUC level.
- A path combination run is made taking into account the dependence of more than one major function on a particular WUC.

d. Failure information from the 66-1 data system and numerical factors for provisory conditions are input, and a WUC criticality list by rank order is generated by the computer.

Since no change in card format of other documentation methods is necessary for rotary wing application, no computer programming changes were necessary.

An additional product generated by the computer is a two-part criticality trend analysis. Part I contains the criticality rankings and linear regression analysis by WUC for the previous 12 months. Part II contains plots of the criticalities and regression lines for the 25 WUCs top-ranked according to safety criticality.

TABLE 3-1. PROVISORY FACTOR CODES

Code	Provisory Condition	
A	Icing conditions	
В	Adverse speed/altitude operations	
C	Runway stopping distance (fixed wing) Confined area operations (helicopter)	
D	Night operation	
E	IFR conditions	
F	Supersonic flight	
G	Rain	
н	Solo flight	
I	Loss of function for which indication is provided	
K	Normal system failed	
T	Flame-out	
X	Fire	
Y	Cold weather	
2	One of three available units is required	
3	Two of three available units are required	
4	One of four available units is required	
5	Two of four available units are required	
6	Three of four available units are required	
8	Four of eight available units are required	

3.2.5 Model Maintenance

Each time an aircraft type for which a safety model has been developed undergoes a modification, the effects of the changes on the model must be evaluated. Technical order and WUC revisions must be incorporated into the model. Removal of existing hardware, installation of new hardware, or design improvements may change

link dependencies and sensitivity assignments. The update procedure should follow the same general steps as outlined for the initial analysis effort.

Existing block diagrams and a printout of the functional card deck form the baseline for change identification. Functional relationships should be reviewed to determine the impact of changes on the documented safety analysis. Diagrams should be revised to reflect functional differences, WUC changes should be noted, and all differences listed on a flight-safety functional tabulation sheet. The functional deck printout can be used for manual indication of what the changes are and where they occur. New data cards are prepared and the functional deck updated by the removal of obsolete cards and the insertion of new cards. From this point on, the computer is again utilized to edit the functional deck, perform path identification/documentation, and calculate sensitivities for each WUC.

Block diagrams and other affected portions of the specific aircraft safety analysis report should be updated and revised pages issued that reflect these changes. Maintaining an accurate and updated model is important to obtaining an accurate assessment of the safety significance of hardware failures.

UH-IN MODEL DEVELOPMENT

An FSPT model for the UH-1N helicopter was developed to evaluate the feasibility of applying the modeling methodology to rotary wing aircraft. The initial step was a review of the basic FSPT model for any inconsistencies that would affect the adaptation to rotary wing application. Next, the flight phases were reviewed and redefined in accordance with helicopter flight operations. Allowances were made for hover flight, and for the differences in takeoff/landing flight characteristics between rotary and fixed wing aircraft. New and revised provisory factors were incorporated for extreme rotary wing flight conditions (i.e., high altitude hover, confined area flight maneuverability) where recovery from a system failure is less likely. The total aircraft documentation was submitted for "GO 95" computer edit at SA/ALC in July 1975.

The aircraft flight manual and maintenance technical orders provided the information on aircraft system operation. The model developed represents the UH-1N helicopter configured to the latest TCTOs documented in the manuals supplied by SA/ALC. Table 4-1 lists the manuals and their revision status applicable to the developed model.

The UH-1N safety model was developed by ARINC Research for all systems of the aircraft. Although the UH-1N is a fixed-skid aircraft, landing gear and ground control were included as primary functions to ensure consistency with the previous FSPT models and establish the precedence for the modeling of wheeled rotary wing aircraft.

Because of the vulnerability of the functional logic/sensitivity documentation of such errors as omission of links, duplication of cards, and keypunching, quality reviews were conducted at various critical points in the model development. Each card was checked against the functional links of the diagrams to assure accuracy and completeness. Work unit codes used in the model were checked against the WUC manual to assure completeness.

Appendix C presents the methods and standards used in documenting an FSPT aircraft model. Appendix D presents the FSPT documentation for the UH-1N helicopter.

TABLE 4-1. UH-1N HELICOPTER SYSTEM DOCUMENTATION

Nomenclature	Title	Revision/Date
T.O. 1H-1(U)N-1	Flight Manual	Change 3/20 Jan 75
T.O. 1H-1(U)N-2-1	Organizational Maintenance	Change 11/25 Apr 75
T.O. 1H-1(U)N-06	Work Unit Code	Change 1/8 Apr 75

APPENDIX A HISTORICAL SUMMARY OF FSPT

HISTORICAL SUMMARY OF FSPT

In 1965, the desirability and practicability of quantifying the significance of specific equipment malfunctions relative to flight safety was explored in a feasibility study conducted by ARINC Research Corporation for the Air Force. The feasibility of a safety-quantification approach, which has subsequently become known as Flight Safety Prediction Technique (FSPT), was demonstrated; and the method was developed and refined in a series of studies, as follows:

Study Phase	Subject/Date	Sponsor*/Publication No.
I	Feasibility Study, September 1965 to June 1967 (Phase I)	Sacramento Air Materiel Area (SMNE), Contract AF09(603)62335, SM-67-2; publication 705-01-1-777
п-А	Technique Development, October 1967 to July 1968 (Phase II-A)	San Antonio Air Materiel Area (SANEW), Contract AF09(603)-67-A-0267-SA01; publication 734-01-1-895
п-в	Technique Development, July 1968 to July 1969 (Phase II-B)	San Antonio Air Materiel Area (SANEW), Contract F09(603)-68-A-0317-SA01; publication 754-01-1-985 (Revision 1)
	FSPT System Documentation for the F-4C and T-37 Aircraft, October 1970 to June 1971	San Antonio Air Materiel Area (MMER) Contract F41608-71-C-0576; publication 697-01-1-1118

In the Phase II-B study, the FSPT was applied to the F-106 aircraft. Concurrent with Phase II-B, the U.S. Naval Safety Center contracted ARINC Research to extend the methodology to produce a flight safety criticality model for the F-4J aircraft. The results of this effort are documented in ARINC Research Publication 753-01-3-982 (Revision 1).

In 1970, ARINC Research was contracted to develop suitable input data to permit the application of the technique to the T-37 and F-4C aircraft. These data were derived in the form of mathematical model functional documentation as input to the basic computer program developed and applied to the F-106.

In 1972, ARINC Research Corporation was awarded a contract, with the subsequent modifications in 1973 and 1974, to apply the Flight Safety Prediction Technique to 15 aircraft, working jointly with cognizant Air Logistics Centers. Aircraft to which the FSPT has been applied under this latter contract (F09603-72-A-1132-SA01) include:

- a. T-38
- b. F-111A and FB-111A

^{*}The office symbols of Service Engineering at the Sacramento and San Antonio Air Materiel Areas are now SM/ALC/MME and SA/ALC/MME, respectively.

- c. A-7D
- d. F-4D, E; RF-4C
- e. C-141
- f. A-37
- g. O-2
- h. OV-10
- i. B-52G, H
- j. C-130E
- k. KC-135
- 1. C-5A
- m. T-39
- n. F-15
- o. UH-1N Helicopter*

^{*}Feasibility study of adaptation of FSPT to rotary-wing aircraft.

APPENDIX B FORMULATION OF CRITICALITY-ASSESSMENT TECHNIQUE

FORMULATION OF CRITICALITY-ASSESSMENT TECHNIQUE

To implement the basic safety model defined in Section 2.2, it is necessary to develop a submodel for the probability that a malfunction in element j during mission phase k will result in an accident. This submodel in turn requires that we estimate two parameters: the probability of accident if a major function is not available during each mission phase, and the dependence of the major function on element j during each mission phase.

The first parameter is termed "functional sensitivity" and is estimated for each major function. The functional analysis performed in this task established for an aircraft the following hierarchal scheme:

Aircraft

Primary functions

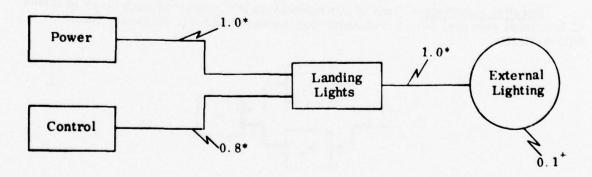
Major functions

Function

Elements (Work Unit Codes)

A primary function would be one such as Flight Control. Major functions under Flight Control would include Pitch Control and Yaw Control.

The second parameter, "link dependency," is a vehicle for showing the influence of each functional-path element on the performance of a major function. For example, if the major function being considered is External Lighting, the following diagram illustrates the nature of functional sensitivity and link dependency values.



^{*}Link dependencies

The 0.8 value means that failure of the Control function will result in loss of the Landing Light function 80% of the time. The 0.1 functional sensitivity value denotes that loss of external lighting will result in an accident 10% of the time. The values must be interpreted in a proportional sense, in that the actual accident probability is dependent upon external factors (see Section 3.2.3).

^{*}Functional sensitivity

The remainder of this appendix discusses the procedures and model used to obtain element sensitivities; e.g., in the above example, the accident probability given that a Work Unit Code in the Control function malfunctions.

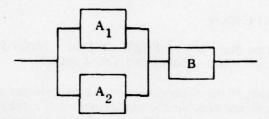
Three principal types of functional relationship—series, redundant, and parallel—were identified as representing the major forms to consider in modeling element sensitivity.

<u>Series Relationship</u> - A function having only one input. Schematically,



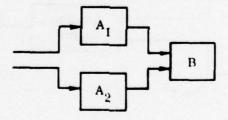
which indicates that outside of its own elements, the success of function B is only affected by the success of function A.

Functional Redundancy - A function having one or more backup functions that can provide the required inputs to successor functions. Schematically,



where A_1 and A_2 represent a functional redundancy in that either may provide the necessary input to B.

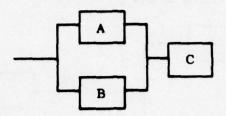
<u>Parallel Functions</u> — Two or more functions independent of each other in terms of functional success, but each of which may be required for a successor function. Schematically,



B will generally require both A_1 and $A_2\,;$ but A_1 does not depend on $A_2\,,$ nor does A_2 depend on $A_1\,.$

In some cases the distinction between functional redundancy and parallel paths is very slight, and may depend on mission phase. For example the four engines of a plane can be considered to be a redundant configuration providing inputs to the primary propulsion function during cruising, but would generally be considered to be parallel functions during takeoffs requiring full power.

In general, given a schematic relationship of the form,

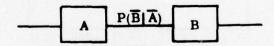


we can say that A and B are in a functionally redundant configuration if the success probability of C is the same if 1) A and B are successful, 2) A only is successful, or 3) B only is successful. If, for example, C is more likely to be successful if both A and B are successful, rather than A or B alone, then the relationship is one of parallel paths.

It is noted that the model will also account for element redundance and parallel elements through inputs such as $P(\overline{A}|i_a)$, representing the probability that the Ath function fails given that the $i_a{}^{th}$ element in A has failed. If i_a is a parallel element, the probability would depend on mission requirements and other parallel-element states.

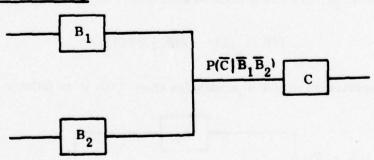
Link dependency is the conditional probability of a functional failure, given the failure of immediate predecessor functions. The link dependencies applicable to the three basic designs defined above are shown below.

Series Relationship

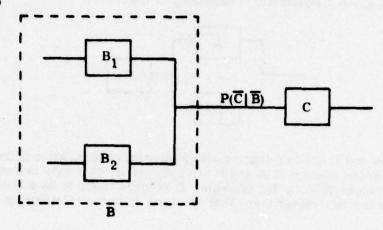


Link dependency = $P(\overline{B}|\overline{A})$ = probability that B fails given that A fails.

Functional Redundancy

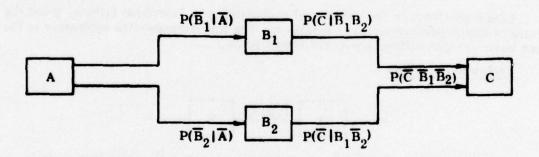


equivalent to



where $\overline{B} = \overline{B}_1 \overline{B}_2$

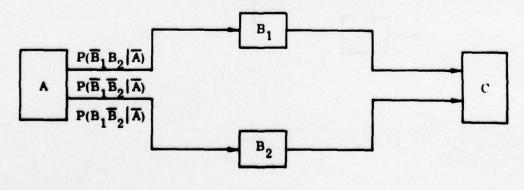
Parallel Functions



We shall generally assume that the dependencies of B_1 with respect to A, and of B_2 with respect to A, are independent of each other, so that

$$P(\overline{B}_1\overline{B}_2|\overline{A}) = P(\overline{B}_1|\overline{A})P(\overline{B}_2|\overline{A})$$

We then can consider three link dependencies from A to B as follows:



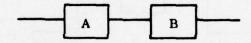
noting that

$$P(\overline{B}_1 \big| \overline{A}) = P(\overline{B}_1 B_2 \big| \overline{A}) + P(\overline{B}_1 \overline{B}_2 \big| \overline{A})$$

$$P(\overline{B}_2|\overline{A}) = P(B_1\overline{B}_2|\overline{A}) + P(\overline{B}_1\overline{B}_2|\overline{A})$$

Models are shown below for determining the sensitivity of elements within a function for each of the three basic designs. The following basic assumptions apply:

- a. Except for cases where an element has a redundant or parallel counterpart or is located in a function with a redundant or parallel function, only the element under consideration shall be assumed to have failed initially. Thus the expression $P(A|i_a)$, representing the accident probability given failure of the ith Work Unit Code element, is based on the assumption that no other element has failed unless element i is in some redundant or parallel configuration. For cases in which there are redundant or parallel counterparts, failures of such counterpart elements or functions are considered in accordance with their occurrence probabilities.
- b. The success of all immediate predecessors ensures the success of a function, provided that the function experiences no element failures. Thus for the series function relationship



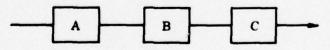
we assume

$$P(\overline{B}|A) = 0$$

provided B experiences no element failures. If an element in function A is under consideration, the latter provision is always true by assumption "a."

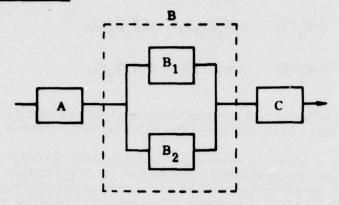
The element sensitivity models are:

Series Relationship



 $P(A|i_a) = P(\overline{A}|i_a)P(\overline{B}|\overline{A})P(\overline{C}|\overline{B})P(A|\overline{C})$

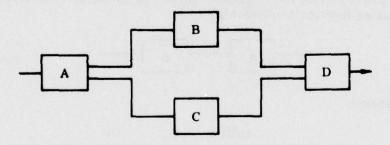
Functional Redundancy



 $P(A|i_a) = P(\overline{A}|i_a)P(\overline{B}|\overline{A})P(\overline{C}|\overline{B})P(A|\overline{C})$

 $P(\mathcal{A} | i_{b1}) = P(\overline{B}_1 | i_{b1}) P(\overline{B}_2) P(\overline{C} | \overline{B}) P(\mathcal{A} | \overline{C})$

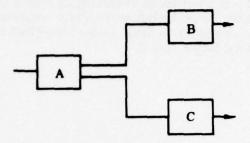
Parallel Functions



 $P(\mathbf{A}|\mathbf{i}_{a}) = P(\overline{\mathbf{A}}|\mathbf{i}_{a}) \left\{ P(\overline{\mathbf{B}}C|\overline{\mathbf{A}}) P(\overline{\mathbf{D}}|\overline{\mathbf{B}}C) + P(\overline{\mathbf{B}}C|\overline{\mathbf{A}}) P(\overline{\mathbf{D}}|\overline{\mathbf{B}}C) \right\}$ $+ P(\overline{\mathbf{B}}C|\overline{\mathbf{A}}) P(\overline{\mathbf{D}}|\overline{\mathbf{B}}C) \right\} P(\mathbf{A}|\overline{\mathbf{D}})$

 $P(A|i_b) = P(\overline{B}|i_b) \{ P(\overline{C}|i_b) P(\overline{D}|\overline{BC}) + P(C|i_b) P(\overline{D}|\overline{BC}) \} P(A|\overline{D})$

A case not explicitly incuded in the above three basic functional relationships is one for which a function is in two paths, e.g.,



then

$$P(\mathbf{A}|\mathbf{i}_{a}) = P(\overline{C}|\mathbf{i}_{a})P(\mathbf{B}|\mathbf{i}_{a})P(\mathbf{A}|\overline{C}\mathbf{B}) + P(C|\mathbf{i}_{a})P(\overline{\mathbf{B}}|\mathbf{i}_{a})P(\mathbf{A}|C\overline{\mathbf{B}})$$
$$+ P(\overline{C}|\mathbf{i}_{a})P(\overline{\mathbf{B}}|\mathbf{i}_{a})\{1 - P(\overline{\mathbf{A}}|\overline{C})P(\overline{\mathbf{A}}|\overline{\mathbf{B}})\}$$

where it is assumed that the effects of loss of the major functions in accident occurrence are independent of each other.

Use of Numerical Provisory Factors for Partially Redundant Systems

The numerical provisory factors (see Table 3-1) are used where more than two identical functions are involved in a redundancy. For example, aircraft with more than two engines often have identical and independent systems for hydraulic pressurization, and for electrical power generation, one driven by each engine. If the aircraft can be operated safely with one or more of such systems in a failed state, one of the numeric codes is utilized in assigning link dependency values. Consider, for example, the following:

If N identical and independent units* are available and at least M are required for safe operation, where 0 < M < N, then the provisory factor of a given unit, say U_j , is the probability that the failure of U_j will cause the aircraft to enter an unsafe state. This is the probability that exactly M-1 of the remaining N-1 units will be in an unfailed state. This probability can be calculated by the formula for the binomial distribution, and is given by

$$P(U_j) = {N-1 \choose M-1} p^{(M-1)} q^{(N-M)}$$

where $P(U_j)$ = probability that failure of the jth unit will cause the aircraft to enter an unsafe state, and

M = Number of units required

N = Number of units available

p = Probability that a single unit will be in an unfailed state

q = Probability that a single unit will be in a failed state or (1-p)

^{*}Units may be either elements, element assemblies, or functions.

Assignment of link dependencies to N identical and independent units of which only M are required proceeds as follows. The value assigned to each unit is the dependency of the higher level function on receiving an output from M of the units (usually 1.0). The provisory factor is the appropriate numeric code. In the evaluation of the path sensitivity, the computer is programmed to select the binomial formula that corresponds to the provisory factor listed.

APPENDIX C FSPT DOCUMENTATION METHODS

FSPT DOCUMENTATION METHODS

Because of the extreme complexity of aircraft, it is necessary to develop a computerized method to identify and document all possible paths associated with each function as well as to determine the safety sensitivity associated with each path. A computer routine has been devised that takes the data from the functional card deck and traces and documents all paths. For each WUC, it also computes the flight-phase sensitivities for each path in which the WUC is present. The resulting computer printout provides a combined functional path sensitivity.

C.1 ALPHA CODING

As each system of the aircraft is functionally diagrammed, the functional blocks are assigned an "alpha code". This code aids the analyst in the bookkeeping tasks of functional diagramming and provides the computer with an identification of the elements to be processed. For standardization among aircraft, nine top-level functions have been defined and each has been assigned an initial or first-alpha designator. Each block in the functional diagram carries the same initial alpha as the top level function. Subsequent letters added to the initial alpha uniquely identify each block.

The only restrictions placed on the assignment of alpha codes are that:

- a. All characters in a code must be a letter of the alphabet, and
- b. The maximum number of characters in one code is seven.

C. 2 ALPHA CODING AND COMPUTER PROGRAM COMPATIBILITY

Additional rules for alpha coding required to obtain the desired results from computer processing include:

- a. When a WUC item operates in the same mode to perform more than one function, the same alpha code is used in each application.
- b. When a WUC item operates in a different mode to perform each of more than one function, a different alpha designator is assigned for each operating mode.

C.3 FUNCTIONAL TABULATION

The "Flight Safety Functional Tabulation" sheet is used to code the safety model for keypunching. The sheets are coded as follows (refer to Figure C-1) for an example).

a. Columns 1 through 3. Used to identify the aircraft represented by the model. For certain aircraft modeled under this contract more than one model – designation series MDS – was included. For instance, a single functional deck was created for four MDSs of the F-4 aircraft. Cards with "F46" in columns 1-3 were common to all aircraft. For example,

*B = blank

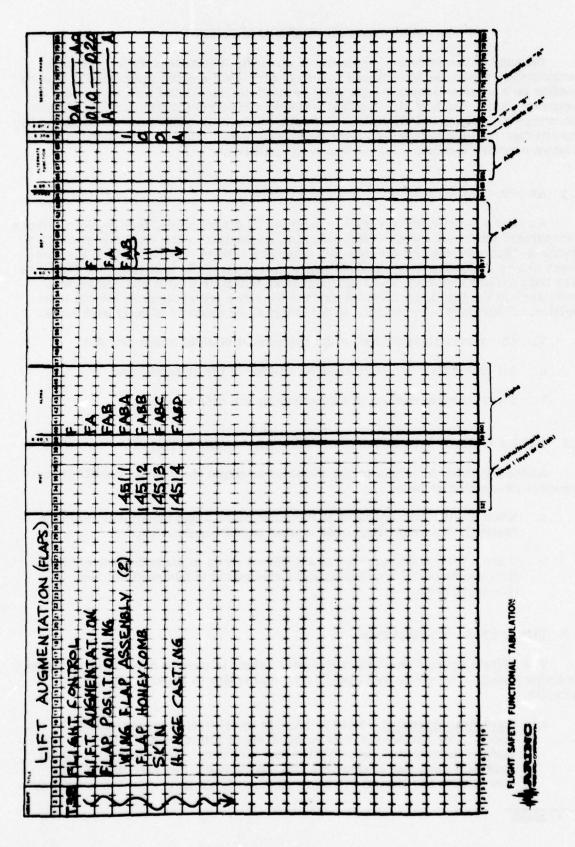


Figure C-1. Flight Safety Functional Tabulation

when these cards are combined with those carrying "F4E" in columns 1-3, then it produces an F-4E FSPT model deck.

- b. Columns 4 through 31. Contain the title of the function or the WUC item.
- c. Columns 32 through 36. Contain the left-justified WUC number.
- d. Columns 37 and 38. Blank
- e. Columns 39 through 46. Contain the assigned alpha designator for the function and/or the WUC. Column 39 contains either an L or an R, or is blank. The L and R designate left and right for those instances when the function and/or WUC pertains to the left or right side of the aircraft.
- f. Columns 47 and 48. Blank.
- g. Columns 49 through 55. Normally left blank, but are used after a deck is operational to substitute the data on a card for that stored in the computer by punching the line record number in this field.
- h. Columns 56 through 63. Identify the dependent functions for either the function or specific WUCs being coded. Column 56 may contain L, R or blank for the same purpose as that of column 39.
- i. Column 64. Contains the alphanumeric code of the "provisory factor" applicable to the link value assigned.
- j. Columns 65 through 69. Contain the alpha designator of a function that is an alternate for the function being coded. (Column 65 is used for "L" or "R" as in Column 39.) The presence of the "alternate alpha" flags the importance of the link dependency as being affected by the success probability of the alternate function.
- k. Column 70. Contains the work unit code dependency value (1 = 0.10; 2 = 0.20; ... A = 1.0). This value is applicable to all flight phases.
- 1. Column 71. Contains special instructions to the computer through the use of letters F, S, or being blank. Cards with an "S" or "blank" in column 71 are used in sensitivity computations. Cards with an "F" document a functional relationships which, although present in the system, would produce an erroneous sensitivity value when combined with other nonindependent paths (having the same function in common at some higher level). The "F" prevents the computer from including the link in the sensitivity calculations.
- m. Columns 72 through 80. Contain functional dependencies for each of nine flight phases as described in Section 3.2.1 of the text. Coding is the same as for column 70.

C. 4 DIAGRAM CONSTRUCTION

The diagrams produced under the contract document the functional interrelationship of the aircraft systems considered in the model. In the interest of extending the useful life of the diagrams, WUC items are not shown, thereby eliminating the necessity of updating the diagrams with each (and sometimes frequent) change to the WUC manual.

As discussed earlier in this report, the diagrams represent the hierarchal structure of the paths from which the sensitivity values are derived. The diagrams, although consistent with the system schematic and reliability block diagrams, are not equivalent due to this hierarchal method of documentation. In the actual system, signals and/or fluids pass from one component to the next and are thus documented in schematics; conversely, the hierarchal approach only identifies the components that must operate to achieve a given function, independent of the direction and/or sequence of signal flow. This approach directly addresses the system impact of a component failure without the necessity of identifying the intrasystem secondary failures. Each line connecting functions on the diagram is documented by a punchcard, with the lower function providing the "alpha designator" and the higher function's alpha designator indicator as the "dependent function".*

^{*}The card deck also documents functional relationships not shown on the diagram; the work unit codes (mentioned earlier) and the "S" cards discussed in paragraph C. 3. 1.

APPENDIX D FSPT DOCUMENTATION OF UH-1N AIRCRAFT

FSPT DOCUMENTATION OF UH-1N AIRCRAFT

This appendix contains the functional relationship diagrams and a listing of the keypunch cards that comprise the FSPT safety model documentation for the UH-1N aircraft.

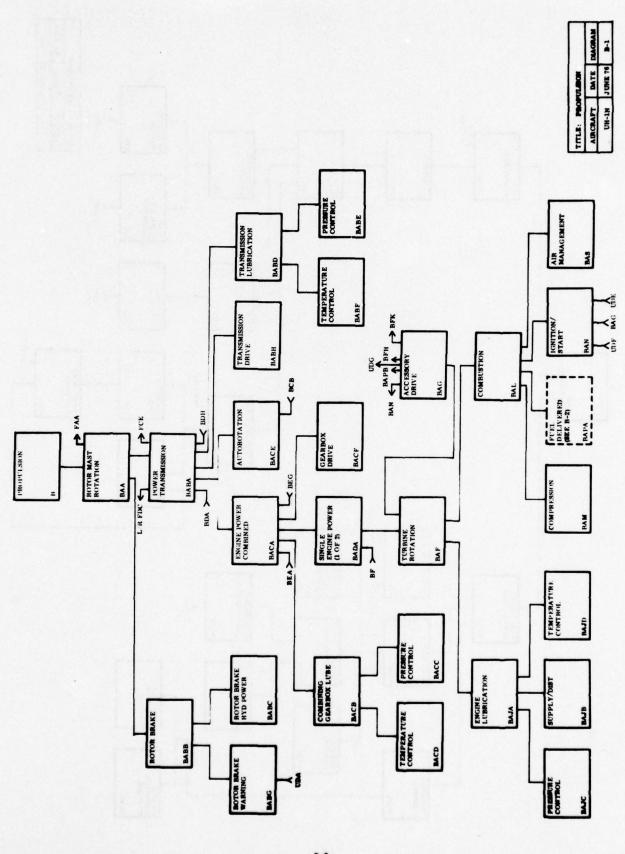
D.1 DIAGRAMS

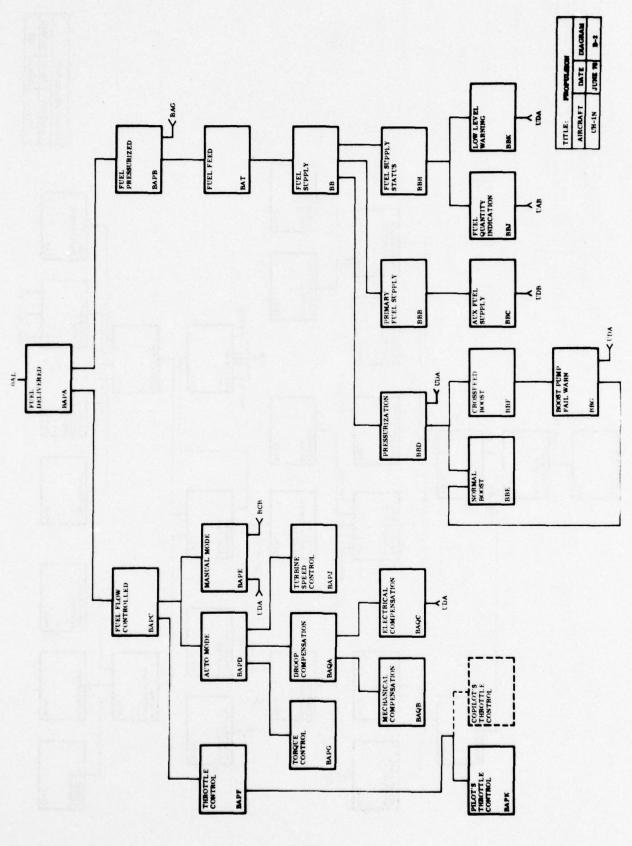
The diagrams illustrating the functional relationships considered in the UH-1N safety model are presented on pages D-5 through D-19, and are listed below:

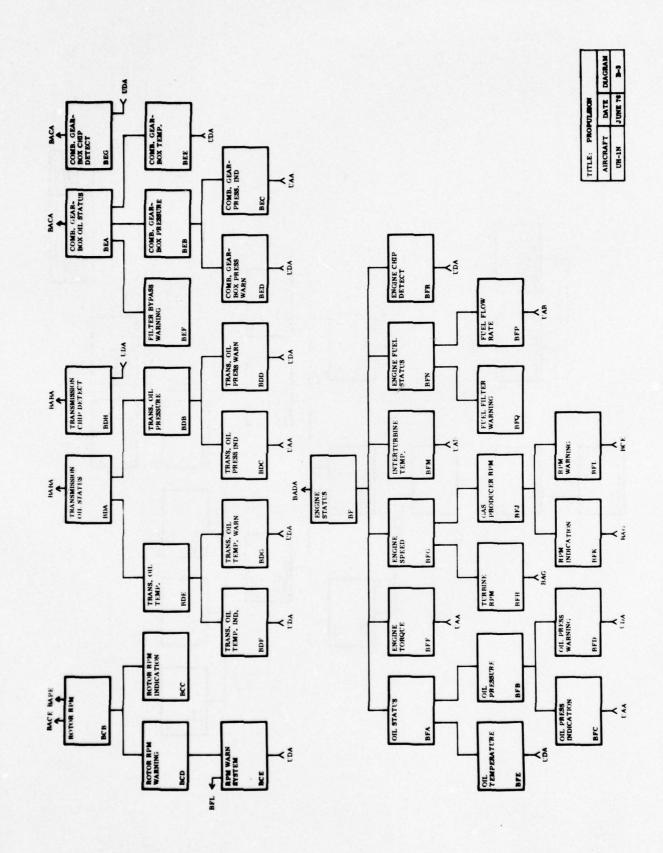
<u>Title</u>	Page
Propulsion, Diagram B-1	D-5
Propulsion, Diagram B-2	D-6
Propulsion, Diagram B-3	D-7
Comm/Nav/Ident, Diagram C-1	D-8
Comm/Nav/Ident, Diagram C-2	D-9
Information and Displays, Diagram D-1	D-10
Information and Displays, Diagram D-2	D-11
Environmental Control, Diagram E-1	D-12
Environmental Control, Diagram E-2	D-13
Flight Control, Diagram F-1	D-14
Flight Control, Diagram F-2	D-15
Ground Control, Diagram G-1	D-16
Mission Support, Diagram M-1	D-17
Landing Gear, Diagram N-1	D-18
Utilities, Diagram U-1	D-19

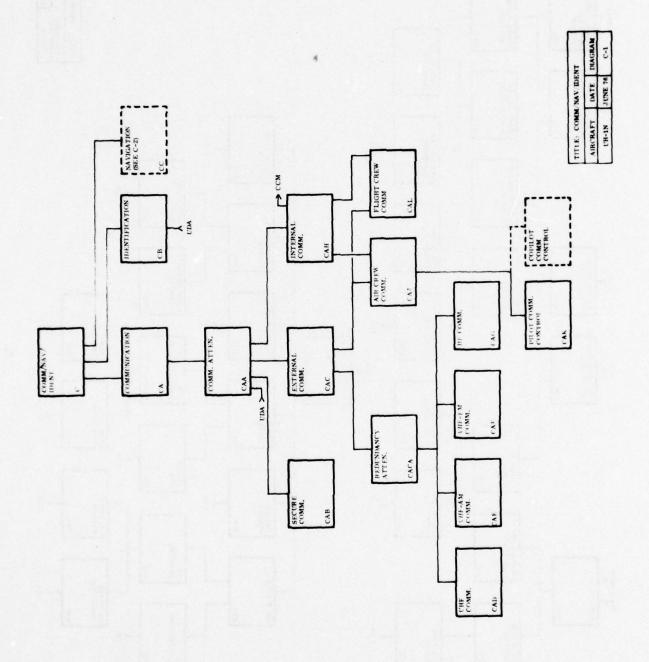
D.2 CARD LISTING

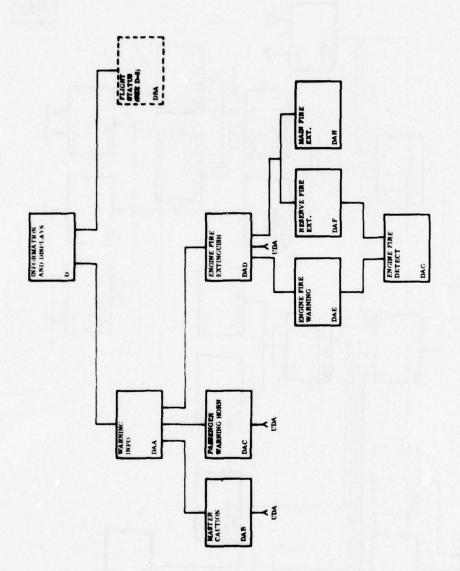
Pages D-21 through D-54 are a reproduction of the punchcard listing. The listing is alphabetical by "alpha designator", and the format is that of the 80-column punchcard itself as described in Appendix C. At the top of each page the card columns are printed vertically; for example, column 34 is printed " $\frac{3}{4}$ ".



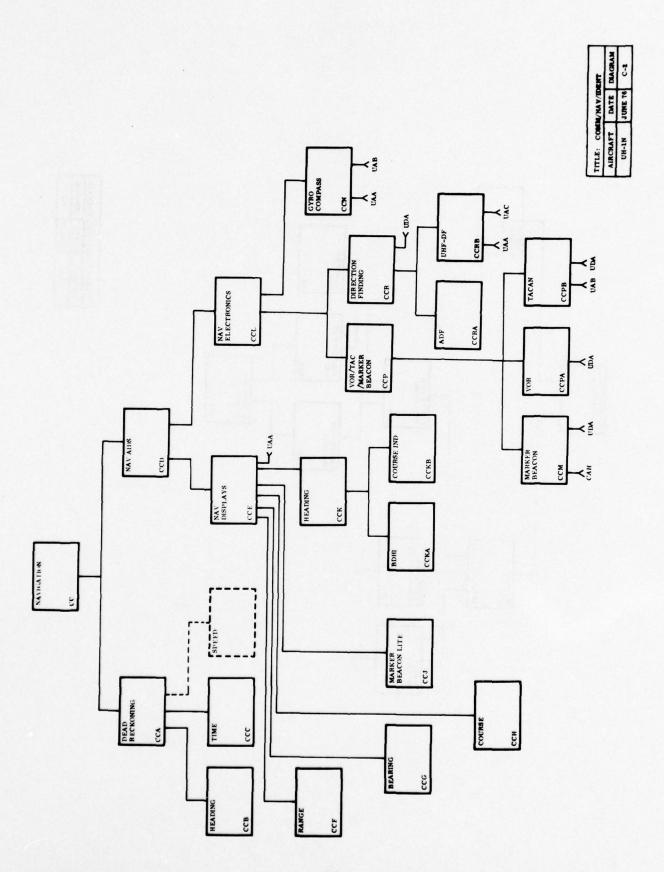


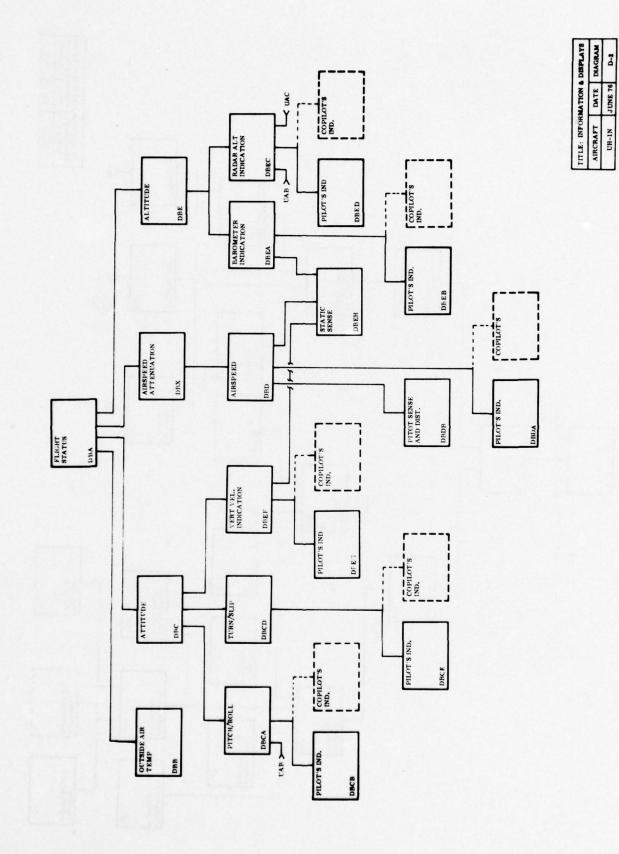


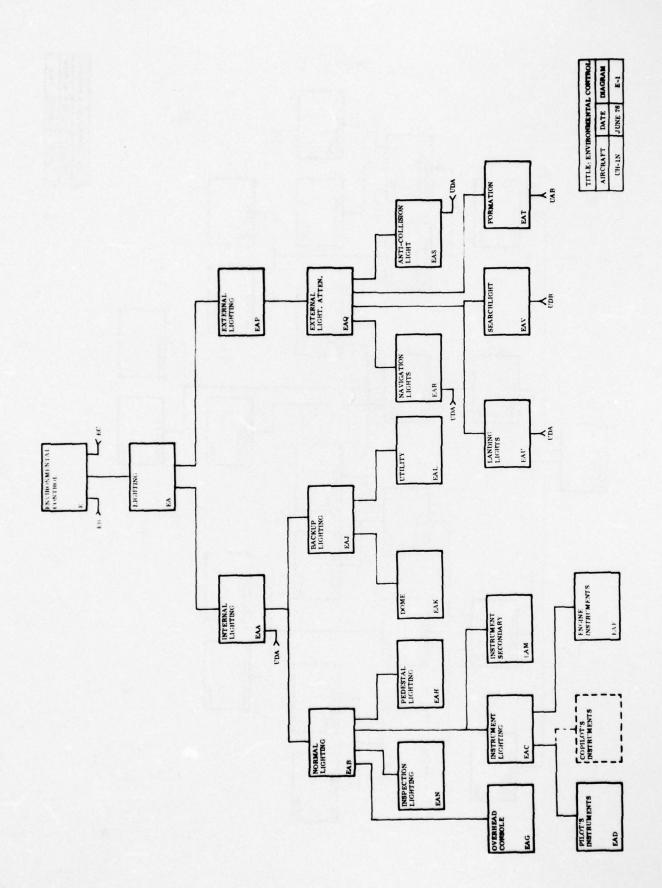


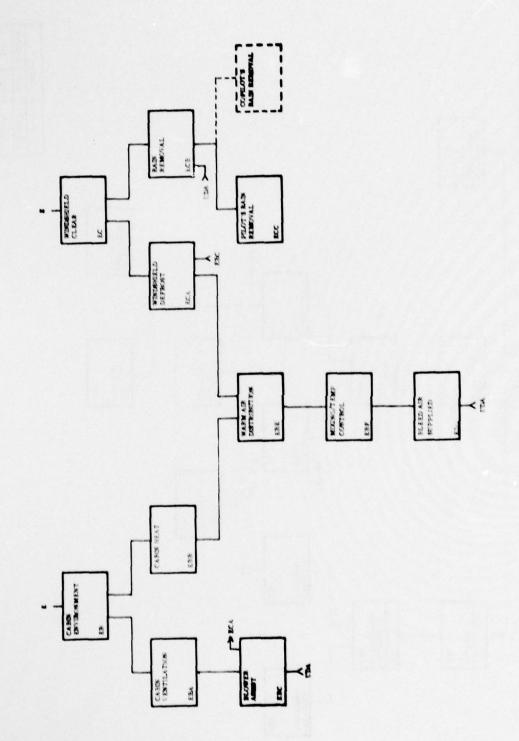


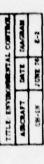
ILE: INFO	LE: INFORMATION &	DISPLAYS
AIRCRAFT	DATE	DIAGRAN
VII-IN	JUNE 76	D-1

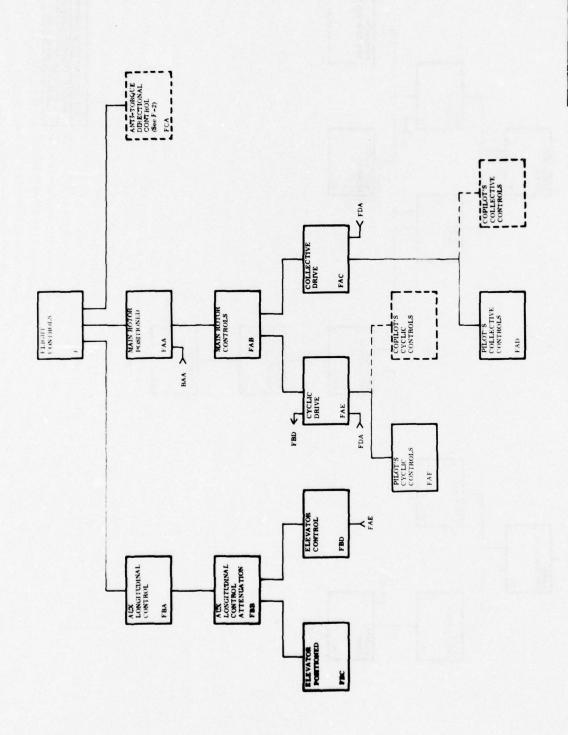




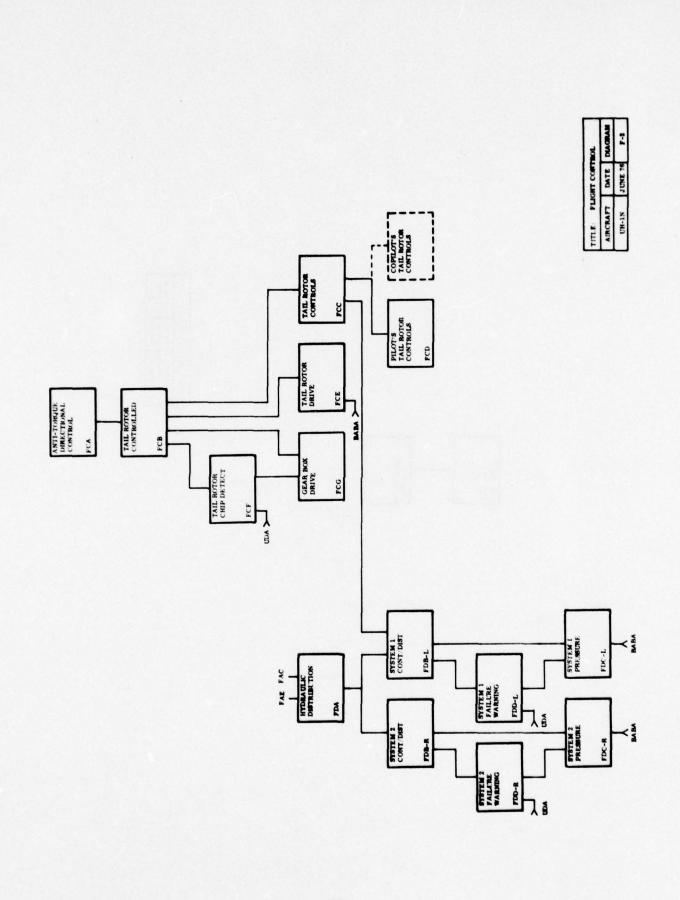


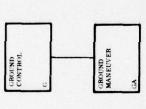




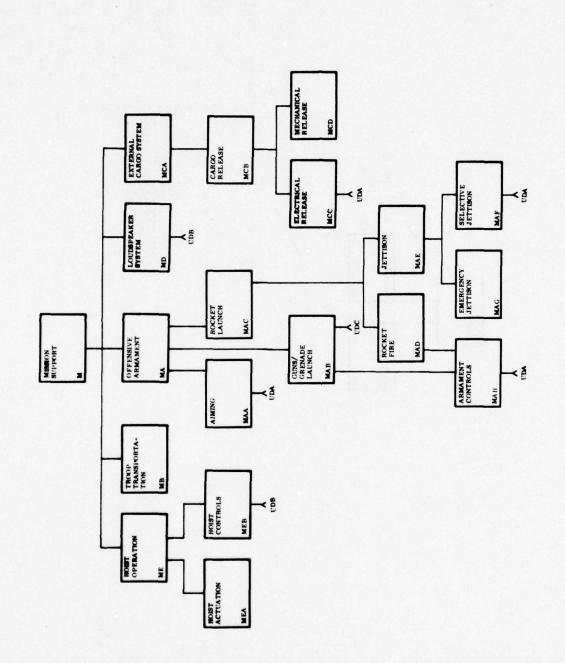


|--|

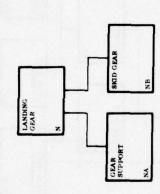


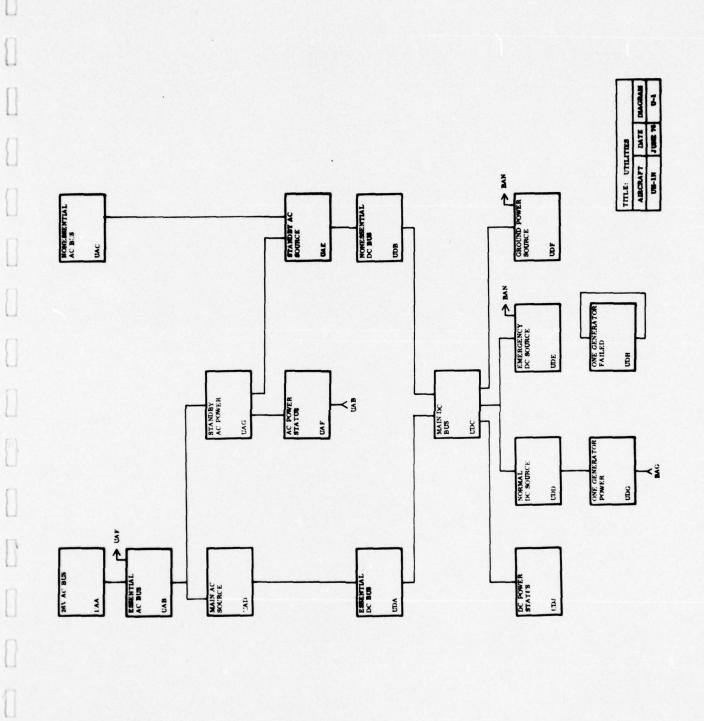


AIRCRAFT DATE DIAGRAM
CH-IN JUNE 76 G-1









PGG095.JiR1 DATE = 63/31/76

PGGG95.JICC UHOOIN HIN				
HIN PROPULSION		В		ΑΑΛΑΛΑΛΑ
HIN POTOR MAST ROTATION		BAA	В	OBAAAAAO
HIN KOTOK MAST POTATION		BAA	FAA	FAAAAAAAA
HIN MAST ASSY	15160	SAAA	BAA	
HIN BUST ROOT	151CA	HAAE	FAA	0
HIN MAST	15168	BAAC	9AA	A
HIN COVER PLATE	1516C	BAAD	BAA	A
HIN DIL JET	15160	BAAE	BAA	2
HIN UPPER HEAPING	151GE	BAAF	BAA	A
HIN BEARING LINES	151GF	SAAG	ВАА	5
HIN LOWER BEARING RACE	151GC	BAAH	БАА	5
HIN POWER TRANSMISSION		BABA	BAA	AAAAAAAA
HIM POWER TRANSMISSION		BABA	FCF	FAAAAAAAA
HIN POWER TRANSMISSION		BARA	LFDC	FAAAAAAAAA
HIN POWER TRANSMISSION		BAHA	RFDC	FAAAAAAAA
HIN ROTOK BRAKE ENGAGED		HASB	BAA	000000000
HIN ROTOR BOAKE QUILL	2611E	BABRA	BABB	A
HIN FOTOR BRAKE HOUSING	2611F	BABBB	BABB	9
HIN ROTOR BRAKE LINING	2611G	BABBC	BABB	1
HIN ROTOR BRAKE DISC	2611H	8488D	BABB	1
HIN ROTOR BRAKE HYD POWER		BABC	BABB	ΑΑΑΑΑΑΑ
HIN POTOR BPAKE HYD SYSTEM	45200	BABCA	RABC	0
HIN MASTER CYLINDER	4521A	BARCB	BABC	3
HIN FILLER PLUG	4521H	BARCC	BABC	1
HIN COUPLING HALF	45210	RAHCD	BABC	3
HIN TRANSMISSION LUBRICATION		BARD	BARA	036686613
HIN INTERNAL FILTER	26125	BABDA	3480	1
HIN MANIFOLD	26120	BARDB	PABD	1
HIN JETS	2612D	PABUC	OEAB	1
HIN EXTERNAL FILTER	2612F	BASOU	CBAB	1
HIN FILTER FLEMENT	26126	SAPDE	BABD	1
HIN FILLER CAP	2612H	BABOF	BABU	1
HIN SIGHT GAGE	2612J	HABUG	BAHD	C
HIN DRAIN VALVE	2612K	BABDH	RABD	1
HIN PRESSURE CONTROL		BARE	BARD	029444920
HIN PUMP	26124	BABEA	BABE	8
HIN RELIEF VALVE	2612L	BASES	BABE	1
HIN TEAPERATURE CONTROL		HABF	BABD	033111030
HIN BLOWER SHAFT 2 EACH	22AAL	BAPFA	BABF	1
HIM SLOWER SHAFT 2 FA	14455	BARFA	BACD	1
HIN BLUWER SHAFT 2 EA	22AAL	BABEA	BAJU	1
HIN COOLER	2612F	RARFB	HABF	1
HIN THERMOSTAT VALVE	2612M	BAPFC	BABF	1
HIN BLUWER 2 FACH	22 AGU	HABED	SAHF	1
HIN THE COOLER BLOWER 2 EA	22AGII	BAGED	BACO	1
HIN DIL COOLER BLUWER 2 EA	22AGU	342FD	BAJD	1
HIN ROTOR BRAKE WARNING		BABG	BABB	111111111
HIN PRESSUPE SWITCH	4521C	BABGA	BABG	A
HIN SEGMENT	4432E	BAPGH	RAHG	A

PGG095.J181 DATE = 03/31/76

	00000111111111112222222223 56780012345678401234567840						
HIN	LAMP	4432F	BAPGJ	HABG		4	
HIN	TRAUSTISSION DRIVE		BABH	AFAH			ΔΑΑΛΑΑΛΑ
HIN	TRANSHISSION ASSY	26100	BAFHA	HABH		1	AAAAAAA
HIN	TRANSMISSIC & MOUNT ASSY	26140	BARHC	ВАВН		ō	
HIN	BUSHING	2614A	HABHD	HIAG		o	
HIN	8001	26148	HASHE	EABH		o	
HIN	Maunt	26140	BABHE	ВАВН		8	
	SPACER PLATE	26140	HABHG	ВАНН		1	
HIN	AOLT	2614E	бАВНН	HABH		5	
HIN	DAMPER	2614F	BAHHJ	HEAR		í	
HIN	FIFTH MINIT	26150	BABHK	BABH		3	
HIN	SEAR L'IG	2615A	BABHL	ВАЗН		. 1	
HIN	30LT	26158	ВАБНМ	BASH		3	
HIN	POOT	2615C	BAHN	ВАВН		0	
HIN	ISOLATION MOUNT	26150	BARHP	BASH		1	
HIN	FITTING	2615E	BABHQ	BARH		i	
	ENGINE POWER COMBINED	2017	BACA	BABA	BA	ACE	017121310
	ENGINE PINER CONSINED		BACA	BABA	8		0000AC000
	ENGINE POWER COMMINED		BACA	BABA	č		DUACACAUC
HIN	IMPUT DRIVE QUILL	2611A	BACAV	BACA		A	001010100
	COMBINING GEARBOX LUBE		BACB	BACA			006686600
HIN	LUHE SYSTEM	22AG0	BACRA	BACB		0	•••••
HIN	ELEMENT OIL FILTER	224GF	ВАСВВ	BACB		Ü	
HIN	VALVE FILTER BYPASS	224GH	BACBC	BACR		1	
HIN	TANK FILTER AND CAP	22/64	BACRO	BACB		1	
HIN	OIL LEVEL SIGHT GAGE	22AGN	BACBE	BACB		ō	
HIN	OIL TUBE PRESSURE	22465	BACBF	BACB		1	
HIN	OIL TUBE BREATHER	22460	BACHG	BACB		i	
HIN	STATIC CHECK VALVE	22AGR	BACBE	BACB		i	
1000	PRESSURE CONTRÔL		BACC	PACB .			029A4A920
HIN	DIL PUMP	22AGB	BACCA	BACC		A	
HIN	REGULATOR	22ACG	BACCB	BACC		8	
7	TEMPERATURE CONTROL		BACD	BACE			000111000
HIN	OIL COOLES	22AGT	BACDA	PACD		1	
-	AUTOROTATION		SACE	BABA	K 8.		OCAAAAAOO
HIN	TAPUT LEIVE QUILL	26114	BACEA	BACE		A	
	GEAFBOX DRIVE		BACE	RACA			LALALALAA
HIN	REDUCTION GRAPBOX SECTION	22046	BACFA	BACF		1	
HIN	CUTPUT HOUSING	ZZAAA	BACFH	BACF		i	
HIN	DIAPHRAGM	224AB	BACEC	BACF		ī	
HIN	INPUT HOUSING	224AC	RACED	BACF		1	
HIN	330 STAGE GEAR	22AAF	BACEG	BACF		A	
HIN	DUTPUT SHAFT	HAASS	BACFJ	BACF		4	
HIN	IDLER GEAR	ZZAAK	BACEK	BACF		•	
HIN	PADS COVERS	ZZZAM	BACFL	BACF		1	
HIN	OUTPUT CARRIN SEAL	MAASS	BACEA	BACF		i	
HIN	TACH GENERATOR STAL	ZZAAP	BACEN	BACF		i	
HIN	MAIN DRIVE SHAFT ASSY	26210	BACFP	BACF		i	
HIN	SHAFT	2621A	BACFO	BACF		Ā	
HIN	COUPLING	26218	BACFR	BACF		A	

PGG095.J1R1 DATE = 03/31/76

	00202 <mark>01111111111227,</mark> 2222223 455799012345478901234567 0 90				
HIN		26210	MACES	BACF	A
HIN		26210	MACET	BACF	3
H1 1		26.21E	RACEU	BACE	i
	SINGLE LAGINE POWER TOFS		BADA	BACA	0A81A13A0
HIM	VEST TUBE FAD ENG MT	11FCA	BATAA	AGAB	A
HIV		LIFCH	SADAB	ALAH	8
HIN	DEAPING	11FCC	BAUAC	AGAB	1
HIN	UPPER FITTING	ILFCD	340.40	BADA	8
HIN	LONER FITTING	LIFCE	BADAE	BADA	8
HIN		11FCF	RADAF	BADA	1
HIN	BIPUD ASSY	11F00	BAPAG	BADA	1
HIN	TU45	LIFUA	BAUAH	AGAS	A
HIN	BEARING	11509	LAGAR	AGAB	1
HIN	FITTING	11FDC	BAUAK	BADA	8
HIN	TRIPOD ASSY	11FF0	BADAL	BADA	1
HIN	TURF	LIFEA	BADAM	AGAB	A
HIN	BEARING	11FEE	BADAN	BADA	1
HIN	FITTING	11FcC	BAUAP	BADA	8
HIN	IMPUT GEARS 1ST STAGE	CAASS	HAUAO	HADA	A
HIN	2NC STAGE GEARS	221AE	BADAR	BADA	A
HIN	CLUTCH GEARSHAFT	22AAG	BADAS	RADA	A
HIN	TURSING RETAILON		BAF	HADA	ΑΔΑΔΑΔΑΔ
	TURBINE ROTATION		BAF	BAG	FAAAAAAAA
HIN	TUPSINE SECTION	SSAEO	BAFA	SAF	0
HI N	COMP TURB VAVE SING	SSAER	BAFB	BAF	Α
HIN	CUMP TURB DISC	SSAEC	BAFC	BAF	Α
HIN	COMP TURB SLADE	SSAED	BAFO	BAF	A
HIN	COMP TURB SHROUD SEGMT	SSAEF	BAFE	BAF	2
HIN	INTERSTAGE PAFFLE	22AFF	BAFF	BAF	2
HIN	POWER TURBLINE VANE RING	ZZAEG	BAFG	BAF	
HIN	POWER TURBINE SHROUD	22/EH	BAFH	BAF	2
HIN		221EJ	BAFJ	BAF	
HIN	POWER TURBINE ROTOR	SZAEK	BAFK	BAF	A
HIN	POWER TURBLES STATUR HGS	7342F	BAFL	HAF	A
HIN	POWER TURBLE SHAFT HGS	SSVEW	BAFM	BAF	8
HIN	NO 3 SEARING	SSYEN	BAFN		o and the same
HIN	POWER TURNINE DISC	SZAEP	BAFP	BAF	8
HIM	NO 4 SEARING TURN STUB SHAFT BOLT	22AER	BAFO	BAF	A
HIN			BAFS	BAF	
HIN		ZZAET	BAFT	BAF	<u> </u>
_	ACCESSIVY OFIVE	22461	BAG	BADA	SAAAAAAAA
	ACCESS IRY DRIVE		BAG	BAN	FAAAAAAAA
	ACCESSINY DRIVE		BAG	BAPR	FAAAAAAAA
	ACCESS RY DAIVE		BAG	BFH	FAAAAAAAA
1000	ACCESSORY DRIVE		BAG	BFK	FAAAAAAAAA
	ACCESSORY ORIVE		BAG	UDG	AAAAAAAA
HIN	ASSY GEARNOX SYS	ZZALO	HAGA	BAG	0
HIN	FRT HOUSTYG CASE	22ALF	BAGS	BAG	1
HIN	COVER HOUSING CASE	ZZALC	RAGC	RAG	0

PGGO95.JIP1	DATE =	03/31/76	

HIN	FIRESEAL RING	551TD	BAGD	bA:	1
HIN	INPUT COUPLING SHAFT	22ALt	BAGE	BAG	A
HIN	IDLER GEAR SHAFT	11ASS	BAGF	346	A
HIV	AIR/OIL SEPARATOR	22ALJ	BAGG	BAG	J
HIN	HEAP ING	2211K	BAGH	RAG	A
HIN	CARADY SEAL	22111	BAGJ	RAG	1
HIN	PANS COVERS	224LM	BAGL	BAG	0
HIN	SEAL SHAFT	STALM	BAGM	BAG	1
HIN	PACKING N-RING	22ALP	BAUN	BAG	1
HIN	LIFTING BRACKET	22410	BAGP	BAG	0
HIN	TUBE DIL TRANSFER	22ALS	BAGO	BAG	8
H1N	ENGINE LUNGICATION		ALAH	BAF	000111000
HIN	LUBRICATION SYSTEM	22AG0	AALAS	RAJA	0
HIN	SUPPLY/OISTRIBUTION		BAJE	DAJA	AAAAAAAAA
HIN	PUMP TIL SCAV AJ 2	22AGC	rajba	BAJB	5
HIN	PUMP OIL SCAV NO 3/4 BEAR		BAJBB	8AJB	5
H1":	PUMP EUECTOR	22AGE	BAJBC	BAJB	5
HIN	ELEMENT OIL FILTER	224GF	BAJBD	BAJB	0
HIN	VALVE FILTER BYPASS	221GH	BAJBE	BAJB	1
HIN	TANK FILTER AND CAP	22AGM	BAJRE	BAJB	1
HIM	OIL LEVEL SIGHT GAGE	22AGN	BAJEG	BAJB	0
HIV	DIL TUBE SCAVENGE	SSVCh	HELAB	BAJB	1
H1%	DIL TUSE BREATHER	22 AGO	BAJBJ	BAJB	0
HIN	STATIC CHECK VALVE	22 AGK	BAJBK	HAJB	0
HIN	all ture pressure	22AGS	RAJBL	BAJB	1
	PRESSURE CONTROL		BAJC	BAJA	ΑΑΑΑΑΑΑΑ
HIN	PUMP TIL PRESSURE	SSVCR	HAJCA	BAJC	A
HIN	REGULATOR PRESSURE	22AGG	BAJCB	BAJC	2
	TE PERATUPE CONTROL		BAJD	ALAE	111111111
HIN	CIL COOLER	22AGT	BAJDA	GLAB	1
	COMUSTION		BAL	BAF	ΑΑΛΑΑΑΛΑΑ
HIN	COMB SECTION	22400	BALA	BAL	0
HIN	COMB CHAMBER LINER	22AD3	BALB	BAL	4
HIN	GAS GENERATTIR CASE	22AUC	BALC	BAL	A
HIN	COME OMAIN VALVE	22ADD	BALD	BAL	0
HIN	CUTER EXIT DUCT	22ADE	BALE	BAL	1
HIN	THER EAST DUCT	22ALF	BALF	BAL	1
	COMPRESSION		ВАМ	BAL	AAAAAAAA
HIN	COMPOSSER SECTION	22460	BAMA	BAM	0
HIN	INLET SCREEN	22480	84:48	ВАЧ	1
HIN	INTAKE SCREEN SUPPORT	22ABC	BAMC	BAM	1
HIN	FIRESFAL FING	22460	BAMD	PAS	A
HIN	COMP INLET CASE	22486	BAME	BAH	1
HIN	COMP HUNSING	22ABF	BAME	MAM	1
HIN	LABRYINTH STAL	22486	HAMC	BAM	
HIN	VO.1 PEARING	22ABH	HAMH	BAM	8
HIN	SPACE &	LUASS	RAMJ	BAM	8
HIN	CUMP TOTOR ASSY	22ACU	RANK	BAM	0
HIN	IST AUTOR PLADES	55VCC 55VCP	BAME	BAM	A

PGG	195.Jial 04Te = C3/31/76			FL IGHT	SAFETY	PHFUIC	TION	TECHNIQUE
	00000011111111111222222222233 4567399123456789012345678901							
HIN	2ND POTOR ALADES	22ACD	BAMN		RAM		A	
HIN	ZHE STATUR VANES	22ACL	SAMP		BAM		A	
HIN	350 ROTOR PLAULS	ZZACE	BAMO		644		A	
HIN	HR STATUR VANES	22ACG	BAHR		HA.4		^	
HIN	SPACER	221CH	BAMS		BAM		8	
HIN	COMP REAR HUR	22ACJ	SAMT		MAS		Δ	
HIN	IMPELLER	22ACK	BAMU		BAM		Ā	
HIN	IMPELLER HOUSING	221CL	34MV		BAY		~	
HIN	COMP TIE MOD	SSVCN	BAMW		HAM		Δ	
HIN	VANE KING	22ACP	HAMX		BAM		Ā	
HIN	NO 2 EFAPING	02455	BAMY		BAM		8	
HIN	AIR POTON SEAL	22402	BAMZ		BAM		i	
HIN	COMPRESSOR BLEED VALVE	224 KD	JAMZA		BAM		i	
	TOTAL STATE OF THE	CZFRO	BAN		BAL	T	•	DAAACOO
HIN.	IGNITION AND ELECT SYSTEM	222.10	BANA		PAN		0	
HIN	IGN EXCITOS BOX	SEVZE	BANB		BAN		A	
HIN	PLUG IGNITOP 2 EACH	22AJC	BANC		BAN		2	
HIN	IGNITION HARNESS	221JE	BAND		BAN		5	
HIN	STARTER GENERATOR	4211K	HANE		BAN		Á	
HIN	START GEN CONT RELAY	4211T	BANF		BAN		Δ	
HIN	SHUNT CONT RELAY	42110	BANG		BAN		^	
HIN	ENGINE START SWITCH	9942A	BANH		BAN		A	
HIN	CIRCUIT BREAKER	42216	BANJ		BAN		1	
HIN	STARTER GEARSHAFT	22ALG	BANK		BAN		À	
HIN	FLOW DIVIDES	ZZAHS	BANL		BAN		8	
	FUEL DELIVERED		BAPA		BAL		-	ΑΑΑΑΑΑ
HIN	FUEL MANIFOLD ASSY	22AHK	SAPAA		BAPA		A	
HIN	TURE PRIMARY	22AHL	BAPAB		BAPA		4	
HIN	TUBE SECONDARY	22AHM	RAPAC		BAPA		1	
HIV	FUEL MOZZLE	ZZAHN	HAPAD		BAPA		i	
HIV	FUEL TUBE PRESSURE	22AHQ	BAPAE		BAPA		A	
-	FUEL PRESSURIZED		BAPB		PAPA		44	AAAAAAA
HIN	FUEL PUMP	22AHD	BAPBA		BAPE		4	
HIN	FILTER FUEL ELEMENT	22AHE	BAPEB		BAPB		1	
HIN	FUEL PUMP GEARSHAFT	ZZALH	BAPBC		BAPB		A	
HIN	FUEL FLOW CONTRULLED		BAPC		BAPA		A	AAAAAAA
HIN	FUEL SYSTE"	CHASS	BAPCA		BAPC		0	
	AUTO MODE		RAPD		BAPC	BAPE	11	1111111
HIN	FUEL CONTROL AUTO	SHASS	BAPDA		BAPD		8	
HIN	REGULATOR VALVE	22AHF	RGPAR		BAPD		8	
HIN	BYPASS VALVE	22 AHG	BAPUC		BAPD		5	
HIN	TRANSFER VALVE MEC	HAVE	HAPDD		BAPD		1	
HIN		DLASS	HAPDE		BAPO		0	
HIN	TTS SENCING HARNESS DELET		BAPOF		BAPD		C	
MIN	TTS LITTER	224JG	HAPDG		CHAS		0	
HIN	PNEUMATIC SYSTEM	SSVKO	SAPOH		BAPU		0	
HIN	GOVERNOR NG	LHASS	DAPUJ		BAPD		A	

HAPDK

BAPDL

BAPE

BAPD

BAPU

BAPC

K PAPD AAAAAAA

22AKB

ZZAKE

HIN AIR TUBE P3 PRESSURE

HIN THE COMPRESSUR DISCHARGE HIN MANUAL MODE

PGG995.JIR1 DATE = 03/31/76

	0000001111111111122272222223 455789012345978901234567890					
761.1001.00	FUEL CONTROL MANUAL	224HC	BAPEA	HAPE		A
	HYPASS VALVE	22AHG	BAPES	BAPE		5
	SPLENNID VALVE	HHASS	BAPEC	BAPE		4
	TRANSFER VALVE	22AHK	BAPED	HAPE		Ā
HIN	GOV MAN CONT CKT BER	22CAN	BAPLE	BAPE		ī
	THROTTLE CONTROL		BAPF	BAPC		ΑΑΛΑΑΑΑΑ
HIN	TOLE STOP CET BER	22CAN	PAPEP	BAPE		0
227	TORQUE CONTAIL		BAPG	BAPD		ΑΑΑΑΑΑΑΑ
HIN	TORQUE SYSTEM	CANO	BAPGA	BAPG		0
HIN	TORQUE CONTROL ONIT	22413	BAPGB	BAPG		8
HIN	TURQUE OIL TUBE	ZZANC	BAPGC	BAPG		8
HIN	TORQUE CHAMSER	22AND	BAPGO	BAPG		a
HIN	ATR TUHE PG PERSURE	22AKC	BAPGE	BAPG		8
	TURBINE SPEED CONTROL		BAPJ	BAPD		AAAAAAAA
HIN	GOVERNOR SHAFT	221AJ	BAPJA	BAPJ		A
HIN	POWER TURNINE GOVERNOR	22140	BAPJB	BAPJ		A
	PILOTS THROTTLE CONTROL		BAPK	BAPE		111111111
	PILOTS THROTTLE CONTROL		BAPK	BAPF	н	AAAAAAAA
HIN	POWER LEVER CONTROLS	22040	BAPKA	BAPK		0
HIN	GSIP	22004	BAPKA	BAPK		8
HIN	FLEXIBLE SHAFT	22CAB	BAPKC	BAPK		A
HIN	GEAR SECTOR	ZZCAC	BAPKD	BAPK		A
HIN	CONTROL TUBE	22CAD	BAPKE	BAPF		Δ
HIN	BELLCHANK	22CAE	BAPKE	BAPF		Ā
HIN	MUUNT	22CAF	BAPKG	BAPE		ī
HIN	JACKSHAFT	ZZCAG	BAPKH	BAPF		Δ
H14	TOROUE TUBE	22CAH	BAPKJ	BAPE		A
HIN	PILLON BLOCK	22CAJ	BAPKK	BAPF		i
HIN	IDLE STOP SULENDID	22CAK	BAPKL	BAPE		ō
HIN	IDLE STOP DELAY FELAY	22CAL	BAPKM	BAPF		0
HIN	IDLE STOP SMITCH	22C4M	BAPKY	BAPF		ò
	DEGOP COMPENSATION	2.0	8404	BAPD		AAAAAAAA
HIN	DROCP COMP CONTROLS	22080	BACAA	BAQA		0
H1'1	ACTUATOR	22C3F	BAQAB	BAQA		A
	MECHANICAL COMPENSATION	LLCO.	8408	BAQA		ΑΑΑΑΑΑΑΑ
HIN	CONTROL TUPE	22CFA	BAUSA	BAUB		A
HIN	TOLER	22CBn	BAUBB	BAQB		A
HIN	BELLCPANK	22CBC	BAUBC	BAQB		Ā
HIN	BOOT	22080	BAGRO	BAOR		0
HIN	CAMBOX	22C8F	BAQBE	BAGB		2
	ELECTRICAL COMPENSATION	22000	BAGC	6AJA		111111111
HIN	RPM STITCH 12 EAC	22086	BARCA	BAUC		5
HIN	GOV CONTROL CKT BKR	22CBH	BANCB	BAQC		i
	AIR MANAGEMENT		BAS	BAL		111000111
	AIR MANAGEMENT		BAS	BAL	A	111111111
HIN	INLET FAIRING	LIFAQ	BASA	BAS		0
HIN	INLET DUCT	LIFAR	BASE	BAS	1	o
HIN	INLET SCREET	LIFAS	BASC	345		i
HIN	INDUCTION BAFFLE	LIFAT	HASD	BAS		ò
HIN	PARTICLE SEPARATOR VALVE	11FAU	HASE	BAS		i

PGG095.JIR1 DATE = 03/31/76

	000000111111111112222222223 56785212345678501234567876				
HIN				RAS	5
HIN		221 FG	BASG	BAS	ó
HIN			PASH	HAS	0
HIN		64455	BASJ	PAS	o
HIN		22AFC	HASK	BAS	0
	CHLL CCAN		HAT	BAPB	AAAAAAAA
HIN	CONTROLS	44140	BATA	BAT	0
HIN	DIL CENEL HEATES	22440	BATB	BAT	i
HIN	CONTROLS OIL/FUEL HEATER HEATED TUSE ASSY	224HT	BATC	BAT	1
HIN			BATO	BAT	Ö
HIN	FUEL CONTROL HTR CKT 3KR	4014A	BATE	BAT	Ö
HIN	CIRCUIT AREAKER	46148	SATE	BAT	Ö
HIN	SHUTOFF VALVE	4612F	DATE	PAT	1
HIN		46126	HATH	BAT	i i de la companya de
HIN		4612H	RATJ	SAT	o
HIN		4612J	BATK	BAT	ò
10 m - 10 m	FUEL SUPPLY	40123	BU	BACA	\$111838811
	FUEL SUPPLY		88	BAT	FAAAAAAAAA
0.00	PRIMARY FUEL SUPPLY		888	88	AAAAAAAA
HIN	TANKS	46110	888A	868	0
HIN	SELF SEALING CELL	4611A	8886	88B	2 .
HIN	NON-SELF SEALING CELL	46116	888C	888	i
HIN	SUMP 2 EACH	4611C	33RD	888	i
HIN	SUMP DRAIN VALVE & EACH	46110	BdBE	889	i
HIN	CHECK VALVE	4611G	BHSF	888	ò
HIN	FLAPPER VALVE	4611H	bass	888	0
HIN	EJECTUR PUMP	4611J	Виян	883	Ŏ
HIN	FIRE SUPPRESSION FOAM	4611K	BBBJ	888	Ö
HIN	FILLER NECK	46111	BARK	888	Ö
HIN	FILLER CAP AND ADAPTER	46114	BBBL	688	ŭ
HIN	VENT LINE	46111	869M	883	1
HIN	ACCESS DUNR	4611F	BBRN	888	ò
HIN	HANGER	46115	BBHP	888	Ö
HIN		46117	8860	688	C
HIN		46120	BRAK	888	ŏ
HIN		4612A	8885	888	i
HIN	AFT INTERCONNECT	46128	BUBT	863	1
HIN		46120	8B8U	888	
HIN	CHECK VALVE	4612F	828V	BB3	ò
HIN	AUX FUEL COUPLING	4612L	BBBW	888	i
HIN		4611P	BBBX	888	
	AUXILIANY FUEL	40111	BAC	889	000010000
HIN	TANK	46210	RACA	BBC	0
HIN	HARGER	4621A	BBCB	BBC	0
HIN	STRAP	4621A	BHCC	BBC	Ö
HIN	HOOK	46210	BBCD	BAC	1 -18 24 4 1000
HIN	HANGING CORD	4621E	BACE	BBC	i
HIN	CELL	4621F	BBCF	BBC	i
HIN	FILLER CAP AND ADAPTER		HRCG	BAC	ò
HIN	TRANSFER PUMP	4621H	BBCH	BRC	5
	THAT IN THE TOTAL				

PGG095.J	IRI	DATE :	= C3/3	116

000	00000011111111112222222222 +56789012345678901234567890	333333333 312345678	3444444444455555 90123456789312345	5555666 5789012	345	66666	777777777
HIN	DRAIN VALVE	46213	BNCJ	313C			1
HIN	VENT VALVE	4621K	BBCK	BUC			1
HIN	CHECK VALVE	4621L	BUCL	BBC			C
HIN	STUD	4621C	93CM	BBC			0
HIN	AUX FUEL CONTPOL	46220	PHCV	BBC			0
HIN	TRANSFER PUMP SWITCH	4622A	BHCP	BAC			5
HIN	TRANSFER RELAY	4622B	BBCQ	BBC			5
HIN	AUX FUFL LON SWITCH	46220	BECK	BBC			0
HIN	UPPER FLOAT SWITCH	46220	BBCS	BBC			0
HIN	LOWER FLOAT SKITCH	4622E	BBCT	BBC			1
HIN	AUX FUFL HOLDING RELAY	4022+	8300	HRC			0
HIN	CIRCUIT BEEAKER	4622G	BRCV	BBC			1
HIN	PRESSURIZATION		BBD	BB			111111111
HIN	NORMAL HOOST		BOE	BBO		BBF	111111111
HIN	NORMAL BOOST		33E	BBG			FAAAAAAAAA
HIN	BOOST PUMP	4611E	BUEA	BBE			Α
HIN	FUEL FOOST CKT BKP	46148	BAEB	BBE			1
HIN	CROSSFEED BOOST		BBF	BBD	K	BBE	ΑΑΑΑΑΑΑΑ
HIN	BOOST PUMP	4611E	HBFA	BBF			A
HIN	CROSSFEED SWITCH	46146	BBFB	BBF			A
HIN	INTERCONNECT VALVE	4612C	BBFC	BBF			A
HIN	FUELCROSSFEED CKT AKR	46140	BBED	BBF			1
HIN	FUEL BOOST CKT BKR	46145	SHFE	BBF			1
HIN	BOOST PUMP FAIL WENG		esc	BBF			111111111
HIN	FLOW SWITCH	46115	BBGA	6BG			A
HIN	SEGMENT	4432E	BAGB	BEG			4
HIN	LAND	4432F	48GC	BBG			٨
HIN	FUEL SUPPLY STATUS		38H	BB	I	888	111111111
HIN	FUEL QUANTITY INDICATION		347	ввн		88K	111111111
HIN	INSTRUMENTS	46130	BHJA	BBJ			0
HIN	PROJE TANK UNIT 3 EACH	46134	93JR	BBJ			8
HIN	COMPENSATOR	46138	BAJC	BBJ			1
HIN	QUANTITY INDICATOR	46130	3310	BBJ			8
HIN	COUPLER	461311	USJE	BBJ			8
HIN	TEST SAITCH	4013E	BBJF	89J			O
HIN	CIRCUIT BREAKER	4613F	8336	BBJ			1
	LOW LEVEL WARNING		BAK	ввн	K	LAB	AAAAAAAA
HIN	FLOAT SWITCH	46110	BRKA	BBK			A
HIN	SEGMENT	4432E	BEKE	BBK			A
HIN	LAMP	44325	BBKC	BBK			Δ
HIN	CAUTION PANEL	44320	SCAB	BABG			
HIN	CAUTION PANEL	44320	BCAB	BBG			
1000	2CAUTION PANEL	44320	HCAB	BEK			1
HIN	CAUTION PANEL	44320	BCAR	800			1
HIN	CAUTION PANCE	44320	BCAU	ALG			1
HIN	CAUTION PANEL	44320	BCVR	BDH			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
HIN	CAUTI IN PANEL	44320	BCAB	RED			1
HIN	CAUTION PANEL	44320	HCAB	BEF			
HIN	CAUTION PAREL	44320	BCAR	BEG			
HIN	CAUTION PANEL	44320	BCAB	BFD			

1234	456789012345073901234507890	11234567	89012345678	8971234507896123456739012345678	19
	CAUTION PAREL	44320	BCAB	EFQ 1	
	CAUTION PAREL	44320	HCAB	818 1	
	CAUTION PAREL	44 32 0	HCAH	FCF 1	
	CAUTION PANEL	44320	BCAB	LFCD 1	
	CAUTION PANEL	44320	PCAB	REDD 1	
HIN	CAUTION PANEL	44320	HCAE	UAF 1	
H11.	CAUTION PANEL	44320	RCAH	UDJ 1	
HIN	SHITCH ARIGHT-DIM	4432B	SCAC	PAG 1	
HIN	SWITCH HEIGHT-DIM	44326	BCAC	BEG 1	
HIN	SWITCH SKIGHT-DIM	44324	BCAC	Pak 1	
HIN	SWITCH BEIGHT-CLA	44328	BCAC	BDD 1	
H1N	SALTON BRIGHT-CIM	4432R	BCAC	BDG 1	
HIN	SAITCH BRIGHT-DIM	44326	BCAC	ROH 1	
HIN	SWITCH BRIGHT-DIM	44328	DCAC	HED 1	
HIN	SWITCH BRIGHT-DIM	44326	HCAC	BEF 1	
HIN	SWITCH ARIGHT-DIM	44328	BCAC	8EG 1	
HIN	SWITCH BRIGHT-DIM	44320	4CAL	BFD 1	
HIN	SWITCH BRIGHT DIM	44328	BCAC	BFQ 1	
HIN	SWITCH BRIGHT-DIM	4432B	BCAC	BFR 1	
	TSAITCH BRIGHT DIM	44328	BCAC	FCF 1	
HIN	SWITCH BRIGHT DIM	44328	BCAC	LFDD 1	
HIN	SWITCH BRIGHT DIM	44328	BCAC	RFDD 1	
HIN	SAITCH BRIGHT DIN	4+320	ECAC	UAF 1	
HIN	SWITCH BRIGHT DIV	44321	BCAC	UDJ 1	
HIN	DIMMING RESISTUR	44320	BCAD	BABG 1	
HIN	DIMMING RESISTOR	4432C	BCAD	88G 1	
HIN	DIMMING RESISTOR	44320	BCAD	BBK 1	
HIN	DIMMING PESISTOR	44320	BCAD	800 1	
HIN	DIMMING RESISTER	44320	BCAD	90G 1	
HIN	DIMMING RESISTOR	44320	HCAD	8DH 1	
HIN.	DIMMING RESISTOR	4432C	BCAD	RED 1	
HIN	DIMMING PESISTOR	4432C	HCAD	BEF 1	
HIN	DIMMING RESISTOR	4432C	HCAD	BEG 1	
HIN	DIMMING RESISTOR	4432C	9CAD	85')	
HIN	DIMMING PESISTOR	4432C	BCAU	BFO 1	
HIN	DIMMING RESISTOR	4432C	BCAD	BFR 1	
HIN	DIMITING FESISTER	44320	BCAD	FCF 1	
HIN	DIMMING MESISTOR	4432C	HCAD	LFDD 1	
HIN	DIMMING RESISTOR	4432C	HCAU	RFDD 1	
HIN	CIMMING RESISTUR	4432C	6CAD	UAF 1	
HIM	DIMMING VESISTOR	4432C	BCAD	UDJ 1	
HIN	DISALAC DIODE	44320	BCAF	BASG 1	
HIN	DIMMING DICOE	44320	UCAE	BBG 1	
HIN	DIMMING DIGUE	44320	HCAE	BBK 1	
HIN	DIMITING CINGE	44320	BCAE	RO.) 1	
HIN	DIMMING DICHE	44320	BCAE	80G 1	
HIN	DIMITING UITUE	44320	ACAE	BDH 1	
HIN	DIMMING DIDDE	44320	HCAF	BFD 1	
HIN	DIMMING DICOE	4432D	ACAE	REF 1	
HIN	DIMMING DIODE	44320	BCAE	8EG 1	

PGG	195.J1R1	OATE	= 03/31/76			FLIGHT S	SAFFTY	PF	EDIC	TON	TECHNIO
						4442555555					
123	4567890123	455/89	0123456767		890123456	78901234507		345	67390	11234	567890
HIN	DIMAING			44370	BCAE		3FO				
HIN	0184142			44321	RCVE		FO			l	
HIN	DIMINE			44320	HCVE		FR			1	
HIN	DIMATA6			44320	BCAE	F	-CF			1	
HIL	91WW140	ardue		44320	BCAL	Lt	10			1	
HIN	DIEALAG	CLUCE		4432U	BCAE	RF	-DO			L	
HIN	DIMMING	DISOF		443211	RCAE	1	JAF			1	
HIN	DIMMING	0100E		44320	BCAL	·	JD J			l	
HIN	CIRCUIT	BREAKF	R	44326	PCAF		BABG				
HIN	CIRCUIT	FBEVKE	K	4432G	BCAF	ě	SRG			1	
HIN	CIRCUIT	BREAKE	Ŋ	4432G	BCAF		BK		1	l	
HIN	CIRCUIT	BREAKE	4	4432G	SCAF	F	RUD			1	
HIN	CIRCUIT	BEEAKE	H	4432G	BCAF	9	BOG				
HIN	CIRCUIT	BREAKE	R	44326	BCAF	t	BOH				
HIN	CIPCUIT	SR FAKE	R	44326	BCAF	t	SEO				
HIN	CIRCUIT	PREAKE	R	4432G	BCAF	P	SFF				
HIN	CIRCUIT	BREAKE	3	4432G	HCAF	E	BEG				
HIN	CIRCUIT	BPEAKE	N	4432G	HCAF	6	SFD			1	
HIN	CIRCUIT	EXEAKE	Q	44326	SCAF	t	SFQ				
HIN	CIRCUIT	BREAKL	R	4432G	BCAF	P	FK				
HIN	CKT 3KR			44326	BCAF	F	CF			1	
HIN	CKT BKR			4432G	BCAF	LF	-DD				
HIN	CKT BKR			44326	BCAF	KF	0.0		1		
HIN	CKT HKR			44326	BCAF	L	IAF				
HIN	CKT BK4			44326	BCAF	ı	LOI				
HIN	ROTOR RPM	STATU	S		BCA	e	ACE			AAA	AAAAA
HIN	ROTCK KPM	STATU	S		BCR		APE			AAA	AAAAAA
HIN	TACH GEN	ERATOR		2613E	BCDA		63				
HIN	TACH OUI	LL		26110	BC88	P	C3			1	
HIN	ROTOR RP4	INDIC	ATION		BCC		CH		BCD	111	111111
HIN			MOTCATOR	2613F	HCCA	e	CC				
HIN	ROTOR RPM	WARNI	NG		BCD		CB	K	всс	ALA	LLADAL
HIN	RP4 HAP'	ING LI	GHT	26134	BCDA	8	CO		1		
HIN	OPM WARN	ING LI	GHT	2613H	BCDA		FL		1		
HIN	ICUA MAS	O SALT	СН	2613L	всов		CD				
HIN	FP4 WAPNI	NG SYS	TEM		BCE		CD			AAA	***
HIN	RPM WARMI				ACE		FL				AAAAA
HIN	RPM WARN			2613J	BCEA		CE				
HIN	RPM AAKY			2613K	BCFB		CF				
HIN	XMISSION	OIL ST	ATUS		BUA		ARA			444	ΔΛΑΔΔΑ
	XMISSI IN				808		DA	1	BABE		ΔΑΑΑΑΑ
	X'IISSI I''				BDC		608				111111
HIN	INCIGATO			20134	BOCA		CC				
HIN	TRANSMIT			26138	HUCB		UC		1		
HIN	CIRCUIT		4	2613G	BUCC		DC				
The American State of the State			ES WAR VING	20.50	800		DH			111	111111
HIN	OIL PRES			26130	BODA		CO				
HIN	SEGMENT	30		4432E	BDDA		000		1		
HIN	LAMP			4432F	BOOC		(0)		1		
	TRANSMISS	IUN DI	L TEMP		BUE		DA	1	BABF	444	AAAAA
			- '		UUL			•	3401		

PGGJ95.JIR1

HIN

HIN

HIN

HIN

HIN

HIN

HIN

HIN

HIN

LAMP

LAMP

HIN DIL STATUS

SEGMENT

HIN ENGINE STATUS

HIN OIL PRESSURE

SEGMENT

HIN OIL TEMPERATURE

LAMP

HIN TIL PRESSURE INDICATION

HIN GIL PRESSURE WARNING

TIL PRESSURE XMITTER

OIL PRESSURE INDICATOR OIL PRESSURE CKT SKK

OIL PHESSURF TRANSDUCER

DATE = 03/31/76

FLIGHT SAFETY PREDICTION TECHNIQUE

12345679901234567890123456789012345678901234567890123456789012345678901234567890 HIN XMISSICH OIL TEMP IND BOF 111111111 BOFA BUF INDICATOR 2613A HIN OIL TEMP BULB BOFB PDF HIN 26130 CIRCUIT BREAKER BOFC HDF HIN 26136 HIN XMISSION OIL TEMP WARN BOG BDE 111111111 GIL TEMP SWITCH BCG 26138 BOGA HIN HIN SEGMENT 4432F BOGA BDG ROGC HIN LAMP 4432F BDG HIN TRANSMISSION CHIP DETECT HUA BABA I BABH AAAAAAAA HIV CHIP DETECTUR 26134 BDHA BOH CHIP DETECTOR LIGHT HIN 2613N SHOU BDH HIN LAMP 2613P ADHC HDH HIN SEGMENT BOHD HOH 4432E LAMP BUHE BDH HIN 44321 HIN COMINING GEARBOX DIE STATUS BEA BACA 4444444 HIN COMBIN GEARBOX PRESSURE I BACC AAAAAAAAA BEB BEA HIN COMBIN GEARBOX PRES IND BEC BEB 111111111 OIL PRESSURE INDICATOR BECA BEC HIN 22FAC. OIL PRESSURE XMITTER BECB BEC LAUSS CBOX OIL PRESS CKT AKR RECC HIN 4241C BEC HIN COMBIN GEARBOX PRES WARN BED HEB 111111111 PRESSURE TRANSDUCER BEDA RED HIN 22AGJ BEDB HIV SEGMENT 4432E BED LAMP BEDC BFD HIN 4432F HIN COMBIN GEARBOX TEMPERATURE REE HEA I BACD AAAAAAAA HIN TEMPERATURE INDICATOR 22BAC BEEA BEE OIL TEMP THERMPCOUPLE 221GK BEEB BEE HIN C BOX OIL TEMP CKT BKR 4241C HEEC HIN BEE HIN FILTER HYPASS WARNING REA 000000000 REF 59224 PYPASS PRESSURE SWITCH BEFA REF HIN SEGMENT BEF HIN 4432E BEFR HIN LAMP BEFC BEF 4432F I BACF HIN COMBIN GEARSOX CHIP DETECT BEG BACA AAAAAAAA CHIP DETECTOR BEGA BEG H1N 22AGL HIN CHIP DETECTOR LIGHT VOASS BEGB REG

22AGN

4432L

4432F

LABSS

22BAC

4741C

22AGJ

4432E

4432F

BEGC

BEGD

BEGE

BF

BFA

BFB

BFC

BFCA

HFCB

BFCC

BFD

BFUA

BFDB

BFDC

RFF

AFG.

BES

REG

BE

BFA

BFB

RFC

3FC efc

BFH

RED

BFD

HFD

RFA

I BAJC

I BAJU

BADA

AAAAAAAA

111111111

ΛΑΔΑΑΔΑΛ

111111111

111111111

AAAAAAAA

FLIGHT SAFFTY PREDICTION TECHNIQUE

PGG1195. J1P1

HIN SECURE COMMUNICATION

HIN INDICATOR C-8157/ARC

HIN

HIN

MIUNT 41-3802/ARC

HIN EXTERNAL CHAMUNICATION

HIN REDUNDANCY ATTERMATION

HIN FADIO SET AWARE-116

HIN VHE-AM COMMUNICATION

HIN WHE COMM SYSTEM FAMC HIN RADIO SET AN/ARC-115

HIN UHF COMMUNICATION

HIN COMM SECURE SET-TSLC/KYZR 62210

ANTENNA UHF AT-1108/ARC

DATE = 03/31/76

. 23 4567890[234567890[234567690 IN TEMPERATURE INDICATOR	22006	SEEA	BFF		a	
IN OIL TEMP THERMOCOUPLE	2246K	HEFB	RFE		Ā	
IN THE TEMP CKT BKR	42216	BFEC	BFE		1	
IN ENGINE TORQUE		SFF	P.F	1	BAPG	111111111
IN TORQUE XMITTER	22EAA	BFFA	BFF		A	
IN DUAL TOPOSE INDICATOR	22E AS	HFFB	HFF		8	
IN TURQUE PEESS CKT AKE	4241C	BFFC	PFF		1	
IN ENGINE SPEED		BFG	BF	T		AAAAAAAA
IN TURBINE KPY		BFH	BFG			111111111
IN TACH SERERATOR	22RAF	BFHA	BFH		4	
IN TRIPLE TACH INDICATOR	2613F	BEHB	BFH		1	
IN TACH GENERATOR GEARSHAFT	224LE	BFHC	BFH		A	
IN GAS PRODUCER RPM		BFJ	AFG			AAAAAAAA
IN RPM INDICATION		BFK	BFJ			111111111
IN TACH GENEPATOR	ZZFAF	BEKA	RFK		A	
IN TACH INDICATOR	2284G	SEKE	BFK		1	
IN TACH GEARSHAFT	221LR	BFKC	BFK		A	
IN RPY WARNING		BFL	HFJ			111111111
IN INTERTURBINE TEMPERATURE		BEM	BF	T		111111111
IN ITT INDICATES	226AH	REMA	RFM		A	
IN ITT THEPMOCFUPLE	99228	BEMB	BFM		A	
IN INCET TEMP CKT AKK	4241C	SEMC	BFM		1	
IN ENGINE FUEL STATUS		BEN	BF			111111111
IN FUEL FLOW HATE		BFP	BFN			000000000
IN FUEL FLOW XHITTER	ZZEAU	BFPA	BFP		A	
IN FUEL FLOW INDICATOR	22FAE	BFPB	BFP		8	
IN FUEL FLOW CKT RKR	4741C	BFPC	BFP		1	
IN FUEL FILTER WARNING		BEQ	BFN			00000000
IN BYPASS SWITCH	4612K	BFQA	BFQ		A	
IN SEGMENT	4432E	BFOB	BFO		A	
IN LAMP	4432F	BFQC	BFQ		4	
IN ENGINE CHIP DETECTION		3FR	9F			111111111
IN CHIP DETECTOR	22AGL	BFRA	AFR		A	
IN SEGMENT	4432E	BFFB	BFR		A	
IN LAMP	4432F	BFPC	BFR		A	
IN COMMINAVIDENT		C				AAAAAAAA
IN COMMUNICATION		CA	C	E		001111230
IN COMM ATTENUATION		CAA	CA			111111111
the eccuse community trees.						

CAB

6221A

62218

63111

62318

02310

6231A

CABA

CABB

CARC

CACA

CAD

CADA

CADR

CAE

CAEA

CAEB

CAC

CAA

CAB

CAB

CAR

CAA

CAC

CACA

CAD

CAD

CAE

CAE

CACA

000000000

111111111

111111111

111111111

111111111

9

0

0

8

PGG095.JIR1 DATE = 03/31/76

00060000011111111111222222222				
HIN ANTENNA VHE AT-1109/420	62318	CAEC	CAE	8
HIN VHE-EM CUMMUNICATION		CAF	CACA	111111111
HIN VHE COM SYSTEM SEM	62100	CAFA	LAF	0
HIN MACIO SET ANTARC-114	6211A	CAFR	CAF	8
HIN FILTER	6211C	CAFC	CAF	1
HIN ANTENNA AS-1723/ARC	62110	CALD	CAF	8
HIN ANTERIA COUPLER	02116	CAFE	CAF	8
HIN HE COMMUNICATION		CAG	CACA	111111111
HIN RECIXALITER PT-098/AHC10	61111	CAGA	CAG	В
HIN MOUNT AT-3772A/A	61112	CAGH	CAG	0
HIN INVERTER PP-37-2/ARC102	61113	EAGC	CAG	4
HIN CONTROL C-394C/ARC94	61114	EAGO	CAG	8
HIN ANTENNA	61115	CAGE	CAG	. 8
HIN ANTENNA COUPLER CU-1658/	61116	CAGE	CAG	3
HIN INTERNAL CHARUNICATION		CAH	CAA	000000000
HIN INTERNAL COMMUNICATION		CAH	CCM	F111111111
HIN AIRCREW COMMUNICATION		CAJ	CAC	111111111
HIN AIRCREM CUMMUNICATION		CAJ	CAH	111111111
HIN PILOT COMM CONTROL		CAK	CAJ	111111111
HIN PILOT COMM CUNTRAL		CAK	CAJ H	AAAAAAAA
HIN CONTROL PANEL C-6533/ARC	6411A	CAKA	CAK	ä
HIN CORD AF-14/U	64113	CAKB	CAK	8
HIN PLUG U-92A/U	6411C	CAKC	CAK	8
HIN CORD 44-85/U	64110	CAKD	CAK	3
HIN PLUS U-94A/J	6411E	CAKE	CAK	8
HIN HEADSIT	6411F	CAKF	CAK	1
HIN FOOT SWITCH	6411G	CAKG	CAK	1
HIN HOT MIKE SWITCH	6411H	CAKH	CAK	0
HIN MINE SALTCH ACYCLICS	64111	CAKJ	CAK	1
HIN FLIGHT CREW COMM		CAL	CAC	111111111
HIN FLIGHT CREW COMM		CAL	CAH	00000000
HIN CONTROL PANEL 2 EACH	6411A	CALA	CAL	1
HIN CORD MF-14/U 2 EACH	64118	CALB	CAL	1
HIN PLUG U-92A/U 2 EACH	6411C	CALC	CVF	1
HIN CORD AV-85/U 2 FACH	64110	CALD	CAL	1
HIN PLUG U-944/U 2 EACH	6411E	CVF	CAL	1
HIN HEADSET 4 EACH	6411F	CALF	CAL	1
HIN FOOT SAITCH 2 EACH	6411G	CALG	CAL	1
HIN HOT MIKE SWITCH 2 EACH	6411H	CALH	CVF	0
HIN IDENTIFICATION		CB	C	200000000
HIN IFF APINDER AN/APX-72	65110	CBA	CR	0
HIN RECEIVER AMITTER RT-859	6511A	CRA	CB	8
HIN MOUNTING MT-38C7/APX-72	65110	CBC	CB	0
HIN CHATRIE UNIT C-6280P/APX	6511C	CNO	CB	8
HIN ANTENNA AT-741/A	65110	CBE	CB	8
HIN ALTIMETER ENGAGER	6511E	CRF	CB CR	1
HIN CIRCUIT EREAKER HIN IFF TEST FOULPMENT	6511F	CBG	CB	ò
HIN IFF TEST FOULPMENT HIN XPONDER TEST SET TS-1343	6521A	CBH	CB	0
HIN MOUNTING MT-3513/APX	65218	CBK	CR	ŏ
HER MOUNTEND MI-3013/APX	03210	COR	Cit	

PGG095.J121 0ATE = 03/31/76		FLIGHT	SAFFIY PRESI	CI	ION TECHNIQUE
0000000001111111111122222222	3333333	34444444446555555	555500000006666	67	1771771713
123455789012345678901234567890	1234561	390123456739012345	675 1012345678	901	234567670
HIR MARK XII COMPUTER KIT 14/	e5216	CBL	CH	0	
HIN NAVIGATION		cc	C E		000122230
HIN DEAD RECONING		CCA	CC K CCO		LLLAAAAAA
HIN HEADING		ССВ	CCA		ΑΑΛΑΑΑΑΑ
HIN STANDBY COMPASS	51220	CCBA	CCB	0	
HIN COMPASS	5122A	CCBa	CCS	A	
HIN CORRECTION CARD HOLDER	51223	CCBC	CC9	Ü	
HIN TIME		ccc	CCV		ΑΔΑΔΑΔΔΔ
HIN CLUCK	51318	CCCA	CCC	0	
HIN NAV ATOS		CCD	CC		000555830
HIN NAV DISPLAYS		CCE	CCD		ΔΔΔΔΔΔΔΔ
HIN RANGE		CCF	CCE		111111111
HIN INDICATOR BUHI 2 LACH	7111E	CCFA	CCF	1	00000000
HIN BEARING		CCG	CCE		888888888
HIN INDICATOR BOHL 2 EACH	71111	CCGA	CCG	1	
HIN COUPSE	())))	CCH	CCF		55555555
HIN COURSE INDICATOR 2 EACH	62118	CCHA	CCH	1	202222122
	71616	CCJ	CCE		000000100
HIN INDICATOR 2 EACH	7151E	CCK	CCJ	1	00000000
HIN HEADING HIN POHI		CCKA	CCE		88888888
HIN INCICATOR BOHI 2 EACH	7111E	CCKAA	CCKA	1	111111111
HIN COURSE INDICATOR	11116	CCKB	CCK		111111111
HIN COURSE INDICATOR 2 EACH	62118	CCKBA	CCKB	1	111111111
HIN NAV ELECTRONICS	02115	CCL	CCD	•	AAAAAAAA
HIN MARKER BEACON		CCM	CCP		000000100
HIN MARKER SEACON R-1041/ARN	71510	CCMA	CCH	0	000000103
HIM RECEIVER R-1041/ARM	7151A	CCMB	CCM	8	
HIN ANTENNA AT-64C/APN	71518	CCMC	CCM	8	
HIN CONTROL SHITCH	7151C	CCMD	CC'4	A	
HIN SENSING SAITCH	71510	CCME	CCM	A	
HIN GYRO COMPASS		CCN	CCL		68888888
HIN GYPTHAG CTHPASS ANTASNAS	51210	CCNA	CCN	0	
HIN DIRECTIONAL GYED CH- 198	5121A	CCN3	CCN	A	
HIN AMITTER TELLIASH	51210	CCNC	CCN	A	
HIN CUMPENSATOR CN-435/ASV	51210	CCND	CCN	8	
HIN COMPASS MAG-DG SWITCH	51210	CCNE	CCN	5	
HIN COMPASS CONTROLLER C6347	5121E	CCNF	CCN	8	
HIN ELECT CUNT AMP AM-6015A	51216	CCNG	CCN	8	
HIN VOR/TAC		CCP	CCL		111111111
HIN VOF		CCPA	CCP		111111111
HIN VOR AN/APN-32	71310	CCPAA	CCPA	0	
HIN RECEIVER RADIO R-1338	7131A	CCPAS	CCPA	8	
HIM COMTROL UNIT C-6873	71318	CCPAC	CCPA	8	
HIN ANTENNA AS-1304 4044-44	71310	CCPAD	CCPA	8	
HIN ANTENNA DANA-4 MAS-13044	71310	CCPAE	CCPA	8	
HIN MOUNTING MT-36CO	7131F	CCPAF	CCPA	0	
HIN ANTENNA FY HOMING	6211F	CCPAG	CCPA	8	
HIN TACAN		CCPH	CCP		111111111
HIN TACAN AY/ARN-65	71210	CCPBA	CCPB	0	

PGG095.J1R1 GATE = 03/31/76

	0000001111111111222222224 656789012345678901234557890				
HIN		7121A	66983	CCPH	8
HIN	REC/X 11 TTER RT-471/144-65		CCPBC	6433	8
HIN	40041116 "T-2(91 /AR4-45	71216	CCPNO	CCPB	0
HIN	ANTENNA A1-741/A	71210	CCPRE	CCPB	8
HIN	CHANNEL SELECTOR SERVO	71218	CCPBF	CCPB	8
HIN	VIDEO DECODER	71216	CCPNG	CCPB	8
HIN	AZ GAYE	7121H	ССРВН	CCPB	8
HIN	AZ CONTROL	7121J	CCPHJ	CCPB	8
HIN	RANGE GATE	7121K		CCPB	ì
HIN	RANGE CONTROL	71211	CCPBL	CCPH	i
HIN	IF AMPLIFIED	71214	CCP34	CCPB	8
HIN	PHASE OF TECT OR	7121N	CCPBN	CCPB	9
HIN	AZ COUPLER	7121P	CCPUP	ССРВ	8
HIN	PANGE COUPLER	71210	CCP32	CCPA	
	DIRECTION FINDING		CCR	CCL	1111111000
HIN	ADF		CCRA	CCR	111111111
HIN	ADE AIN/ARN-89	71410	CCRAA	CCRA	0
HIN	RECEIVER RADIO 8-1495	71414	CCPAH	CCHA	9
HIN	CONTROL UNIT C-7392	71416	CCRAC	CCRA	8
HIN	AMPLIFIER AM-485 9/AKN-89	7141C	CCRAD	CCRA	9
HIN	ANTENNA LOUP AS-2103	71410	CCRAE	CCRA	9
HIN	ANTENNA SENSE	71415	CCRAF	CCRA	8
HIN	UHF-UF		CCRR	CCS	111111111
HIN	UHF DE ANTARA 50	71110	CCRBA	CCRB	0
HIN	ANTENNA AS-909/AKA48	71111	CCRSS	CCRB	8
HIN	AVP 44-3624/ARA 50	71116	CCRBC	CCKB	8
HIN	PRE-A4P A4-3969/AR	71110	CCKBD	CCKB	8
HIN	40UNT AT-1955/4RA 50	71110	CCORF	CCRB	0
HIN	RADIO SET AMARC-116	63111	CCRRF	CCRA	8
HIN	INFORMATION AND DISPLAYS		D		AAAAAAAA
HIN	WARNING INFORMATION		DAA	D	AAAAAAAA
H1:1	MASTER CAUTION		DAL	DAA	060000000
HIN	MASTER CAUTION LIGHT	4431C	DABA	DAB	0
HIN	LIGHT ASSEMPLY	4431 A	DAEB	DAH	8
HIN	PESET SAITCH	44316	DABC	DAB	1
HIN	DIMMING FESISTER	4431C	CABO	DAU	1
HIN	DIMAINS DIODE	44310	DABE	DAH	1
HIN	LAMP	4431E	DARF	DAR	A
	PAX HRNG HORN		DAC	DAA	000000000
HIN	PAX ALAPM HORN	91210	DACA	DAC.	0
HIM	HORN	91714	DACH	DAC	8
HIN	SWITCH	91218	DACC	DAC	5
HIN	SWITCH GUARD	91210	DACD	DAC	0
HIN	CIRCUIT EPEAKER	91210	DACE	DAC	
	ENGINE FIRE EXTINGUISH		DAD	DAA X	AAAAAAAA
HIN	ENG FIRE EXTINGUISHER	4111C	DACA	DAD	0
HIN	SELECTAR SWITCH	91114	DAUB	DAU	5
HIN	EMERGENCY SWITCH	91110	DAUC	NAU	A
HIN	PULL HANGLE	91110	DAOD	DAD	<u> </u>
HIN	RELAY	9111L	DADE	DAU	A

PGG095.JIR1 DATE = 03/31/76

	000000111111111112!2222222 \$56789012345678901234567890						
HIN	Tuat	91116	JADF	DAG		8	
HIN	MANIFOLD	91111	DAUG	DAU		i	
	ENGINE FIRE WARNING	.1113	DAL	UAD			111111111
HIN	LIGHT ASSY	4911A	DAEA	DAL		A	
HIN	LAMP	49116	DAEA	DAE		^	
	RESERVE FIRE EXTINGUISH	47110	DAF	DAU		DAH	ΛΑΑΛΑΑΑΛ
HIN	CIRCUIT CREAKER	91118	DAFA	DAF		1	Annanaean
HIN	FIRE EXT CONTAINER	9111F	DAFE	DAF		î	
HIN	MOUNT	9111H	DAFC	DAF		o	
HIN	INDICATOR DISC	9111k	DAFD	DAF		ŏ	
HIN	FIRE EXT SHIB	9711A	DAFE	DAF		A	
	ENGINE FIRE DETECTION	,,,,,,	DAG	DAE		-	AAAAAAAA
	ENGINE FIRE DETECTION		DAG	DAF			AAAAAAAA
HIN	ENG FIRE DETECT SYSTEM	49110	DAGA	DAG		0	
HIN	AMPLIFIER	49118	DAGB	DAG		8	
HIN	TEST SHITCH	4911C	DAGC	DAG		ő	
HIN	RESISTOR	49110	DAGO	DAG		A	
HIN	ELEMENT	4911E	DAGE	DAG		A	
HIN	CIRCUIT BREAKER	4911F	DAGE	DAG		1	
-	MAIN FIRE EXTINGUISH		DAH	DAD		DAF	111111111
and the same of th	CIRCUIT BREAKED	91110	DAHA	DAH		1	
	FIRE EXT CONTAINER	9111F	DAHB	DAH		i	
	MOUNT	9111H	DAHC	DAH		0	
	INDICATOR DISC	9111K	DAHD	DAH		C	
	FIRE EXT SJUIS	9711A	DAHE	DAH		A	
100000000000000000000000000000000000000	FLIGHT STATUS		DBA	D			001121200
	GUTSIDE AIR TEMP		DBB	DRA			000000000
H1"	FREE AIR TEMP IND	5131A	DoBA	088		8	
	ATTITUDE		DBC	DBA	E		001151/00
	PITCH/POLL		DECA	DBC			AAAAAAAAA
HIN	PILOTOS IND		DBCB	DBC	A		111111111
HIN	PILOTAS IND		DBCB	DEC	A H		AAAAAAAA
HIN	ATTITUDE INDICATOR	5111F	DUCHA	DBC	9	8	
HIN	PATE SWITCHING GYAN	5111F	UHCBB	DBC	R	A	
HIN	RULL/PITCH DISPLACE GYRO	51116	DACBC	DBC	В	A	
HIN	PHASE ADAPTER	5111J	OBCHD	DAC	В	Δ	
HIN	CIRCUIT BOFAKER	4241C	DHCBE	DAC	B	1	
HIN	TURM/SLIP		DBCD	Dec	K	UBCA	AAAAAAAA
HIN	PILOTS INO		DECE	DBC	0		111111111
HIN	PILCIS IND		DACE	DRC			AAAAAAAAA
HIN	TURN AND SLIP IND	51110	DACEA	DBC	E	5	
	AIRSPEED		080	DRX			001000300
	AIRSPEED		DHD	DHX			000080000
	PILOTS IND		DICA	090			111111111
H1"	PILOTS 190		DRUA	DRO			AAAAAAAA
HIN	ATRSPEED PROTECTOR	5111A	UNDAA	DBD		8	
And the same	PITUT SE'ISE AND DIST		DHDR	DRD			
HIN	PITAT STATIC SYST	51120	AFUED	080		0	
HIN	PITOT TURE	51124	оновн	DBO		A	
HIN	PITOT HEATER	51120	DHUSC	080	8	1	

FLIGHT SAFFTY PREDICTION TECHNIQUE

PGG095.JIEL DATE = 03/31/76

HIN LIGHT ASSY

HIN ENGINE INSTRUMENT

HIN INST PANEL LIGHTS HIN POWER SUPPLY

HIN CIRCUIT BREAKER

LIGHT ASSY

HIN OVERHEAD CONSOLE

HIN OVERHEAD CONSCLE LIGHTS

HIR LAMP

HIN

HIN

HIN CONTROL

LAMP

HIN CONTROL

23456789012345678901234567896 IN HEATER SHITCH	51120	DEDHO	DEDH		1	
IN CIRCUIT BEEAKER	51125	UbDBE	неае		1	
IN MANIFOLD	5112F	DADRE	DBDB		1	
IN DRAIN	51126	DBOBG	онез		1	
IN ALTITUDE		DSE	UBA	E		CCAAAAOO
IN BAROMETRIC IND		DBEA	DBF		DBEC	111111111
IN PILOTS IND		DBEH	DBEA			111111111
IN PILOTS IND		OBEB	DPEA	H		AAAAAAAA
IN ALTIMETER IND	51113	DUFRY	DREB		A	
IN RADAR ALT IND		DBEC	DRE	K	UBEA	AAAAAAAAA
IN RADAR ALT AMAPN-171	72110	DefCA	DBEC		0	
IN REC-XMIT RT-804/4PN-171	7211A	DBECH	DAEC		8	
IN ANTENNA AS-1358/APN-171	72118	DOFCC	DREC		. 8	
IN MOUNTING BASE	72110	DHICE	DREC		1	
IN CRYSTAL TURENET	7212F	DRECF	DBEC		8	
IN PILATS IND		DBED	DBEC			111111111
IN PILOTS IND		DBED	DRFC	H		AAAAAAAA
IN INDICATOR HEIGHT 10-1345	7211C	UBFUD	DRED		A	
IN VERT VEL IND		DBEF	OBC	K	A D&G	AAAAAAAAA
IN PILOTS IND		OBEG	DBEF			111111111
IN PILOTS IND		DBEG	DBEF	H		AAAAAAAAA
IN RATE OF CLIMB IND	51110	DBEGA	DAEG		A	
IN STATIC SENSE		DREH	DBD			4444444
IN STATIC SENSE		DBEH	DRE 4			AAAAAAAA
IN STATIC SENSE		DBEH	DBEF			FAAAAAAAAA
IN STATIC PUST	51128	DREHA	DBEH		1	
IN AIRSPEED ATTEN		DBX	084			111111111
IN ENVIRONMENTAL CONTROL		E				AAAAAAAA
IN LIGHTING		FA	E	D		011111210
IN INTERNAL LIGHTING		EAA	EA			111111111
IN NORMAL LIGHTING		EAB	FAA		EAJ	111111111
IN INSTRUMENT LIGHTING NORMAL		EAC	EAR		EAM	111111111
IN PILOTS INSTRUMENTS		EAD	EAC			111111111
IN COPILOTS INSTRUMENTS		EAO	EAC	H		AAAAAAAA
IN INST PANEL LIGHTS	44120	FADA	EAD		0	
IN POWER SUPPLY	4412A	EADB	EAD		8	
IN CONTROL	44128	EADC	EAD		8	
IN CIRCUIT BREAKER	4412C	EAUD	FAU		8	
IN LICHT ALCH	11120		FAN			

4412D

4412t

44120

4412A

44128

4412C

44120

4412E

44150

4415A

EADE

LADF

EAF

FAFA

EAFR

EAFC

FAFU

EAFE

EAFF

EAG

EAGA

FAGB

EAD

EAU

EAC

EAF

EAF

EAF

EAF

EAF

EAR

EAG

EAG

88888888

111111111

PGG095.J1R1 DATE = 03/31/76

0000000001111111111122222222	2233333333	3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	44555555555556666666	6617171777778
1234567890123456789012345678			FAG	8
HIN TRANSISTICE	4415H	EAGC		
HIN CIRCUIT BREAKER	44150	EAGO	ŁAG	d
HIN LIGHT ASSY	44150	EAGE	FAG	1
HIN LAMP	4415F	EAGF	EAG	1
HIN PEDESTAL LIGHTING		EAH	FAR	111111111
HIN PEDESTAL LIGHTS	44140	EAHA	EAH	0
HIN CONTROL	44141	EAHE	EAH	3
HIN TRANSISTOR	44148	FAHC	EAH	8
HIN CIRCUIT BREAKER	4414C	CHAS	EAH	9
HIN LIGHT ASSY	44140	EAHE	EAH	1
HIN LAMP	4414E	EAHF	EAH	. 1
HIM RACKUP LIGHTING		EAJ	EAA K EA	
HIN DOME LIGHTS		FAK	EAJ	111111111
HIN DOME LIGHTS	41110	EAKA	EAK	0
HIN RHEUSTAT	41111	EAKB	EAK	8
HIN SELECTOR SHITCH	41116	EAKC	EAK	4
HIN CKT BKR	4111C	EAKD	EAK	8
HIN LIGHT ASSY	41110	EAKE	EAK	2
HIM LAMP	41116	EAKF	FAK	2
HIN UTILITY LIGHTS		EAL	EAJ	111111111
HIN UTILITY LIGHTS	44160	FALA	EAL	0
HIN LIGHT ASSY	4416A	EALB	EAL	5
HIN FYMD	44108	FALC	EAL	5
HIN CKT BKR	4416C	EALD	FAL.	8
HIN INSTRUMENT SECONDARY		EAM	EAB K EAG	AAAAAAAA
HIN INST SECONDARY LIGHTS	44130	EAMA	EAM	0
HIM CONTROL	4413A	EAMB	EAM	Λ
HIN TRANSISTER	44138	EAMC	EAM	8
HIN CKT BKR	4413C	EAMD	EAM	3
HIN LAMP	4413E	EAME	EAM	1
HIN INSPECTION LIGHTING		EAN	EAR	000000000
HIN SPARE LAMPS	+4411	FANA	EAN	0
HIN TRANS OIL LEVEL INSP LI	GHT 44420	EANB	EAN	0
HIN LIGHT	44421	EANC	EAN	8
HIN LAMP	44422	FAND	EAN	Α
HIN SWITCH	44423	EANE	EAN	A
HIN CKTEKP	44424	EANE	EAN	8
HIN EXTERNAL LIGHTING		EAP	EA	111111111
HIN EXT LIGHT ATTENUATION		EAQ	EAP	111111111
HIN NAVIGATION LIGHTS		EAR	EAQ	303000333
HIN NAV LIGHTS	44210	EARA	EAR	0
HIN SHITCH STOY-OFF-ON	44214	EARB	EAR	5
HIN SWITCH BRIGHT DIM	44218	EAPC	EAR	5
HIN LIGHT ASSY 6 FA	4421C	EARD	FAR	
HIN LAMP 6 FA	44210	EARE	EAR	
HIN FLASHER	4421E	FARF	EAR	· ·
HIN CIRCUIT PREAKER	4421F	EARG	EAR	8
HIN ANTI-COLLISION LIGHT		EAS	EAO	000000000
HIN ANTI-CULLISON LIGHT	44220	FASA	EAS	0
HIN LIGHT ASSY	4422A	EASB	EAS	8
		The state of the s		

PGGU95.JIR1 DATE = 03/31/75

0000	00000111111111122222222223 567890124456789012445678001	23333333 2345678	34444444444555555 90123456739312345	555510666666666666666666666666666666666	777777777
HIN	LAMP 2 LA	44228	LASC	FAS	1
HIN	HOTOP	44220	CASO	EAS	5
HIN	SWITCH	44220	FASE	EAS	A
HIN	CIRCUIT SREAKER	4422L	EASF	EAS	8
-	FORMATION LIGHTS		EAT	EAQ	000000000
HIN	FORNATION LIGHTS	44240	FATA	FAT	0
HIN	FORM LIGHT CKTRKE	44248	EATB	EAT	8
HIN	ROTUR TIP CONTROL	4424A	EATC	EAT	8
HIN	ROTOR TIP CKT EKR	44248	EATD	EAT	8
HIN	PUTOR TIP SLIP AING	44240	EATE	EAT	5
HIN	RUTCER TIP BRUSHES	4424E	EATF	EAT	5
HIN	ROTOR TIP LAMPS & EA	44246	EATG	EAT .	1
HIN	FUSELAGE CONTROL	4424A	EATH	EAT	8
HIN	FUSELAGE CKT BKR	44248	EATJ	EAT	8
HIN	FUSELAGE LIGHT 4 EA	4424C	FATK	EAT	1
HIN	FUSELAGE LAMPS 4 EA	44246	EATL	EAT	1
HIL	LANDING LIGHTS		EAU	EAQ EAV	000000100
HIN	LANDING LIGHT	44230	EAUA	EAU	0
.HIN	SWITCH CN-OFF	4423A	EAUE	EAU	A
HIN	SWITCH EXT-RET	44238	EAUC	EAU	5
HIN	LIGHT ASSY	4423C	EAUD	EAU	8
HIN	LIMIT SWITCH	44230	EAUE	EAU	1
HIN	LA'1P	4423E	EAUF	EAU	A
HIN	MOTOR	4423F	EAUG	EAU	A
HIN	CKT 3KRS 2 EA	44236	EAUH	EAU	8
HIN	SEARCH LIGHT		EAV	EAQ K EAU	000000A00
HIN	SEARCHLIGHT	44250	EAVA	EAV	0
HIN	SWITCH EXT-RET-LEFT-RIGHT	4425A	EAVB	EAV	8
HIN	SWITCH ON-OFF-STOW	4425B	EAVC	EAV	8
H14	LIMIT SWITCH	4425C	EAVO	FAV	1
HIN	CKT BKPS 2 EA	44250	FAVE	EAV	8
HIN	SEARCHLIGHT ASSY	4425F	EAVF	EAV	8
HIV	MOTOR SKOTATIONS	4425F	EAVG	EAV	A
HIV	MOTOR EXT-RET	4475G	EAVH	EAV	A
H11	LAMP	4425H	EAVJ	EAV	Δ
	CASIN ENVIRONMENT		EB	E	000000000
The same of the same of	CASIN VENTILATION		FBA	F8	111111111
H1'1	PEDESTAL VENT OUTLET	4111H	EBAA	EBA	0
HIN	VENT AIR OUTLETS	41111	EBAR	EBA	0
HIN	DRAIN HUSE	4111M	EdAD	EBA	0
HIN	CLAMPS	4111P	EPAE	EBA	1
		41120	EBAF	EBA	0
HIN	VENT ATS INTAKES 2 EA	4112G	EBAG	EBA	0
HIN	VENT PUSH-PULL CABLE 2 EA	4113N	EBAH	ERA	5
	CAH IN HEAT		EEB	EB	55555555
HIN	OUCT SEL VAL-GOOP PUST	41118	EBBA	EBB	1
HIN	DUOR POST OUTLETS	4111F	EBRB	EBH	0
HIN	DUCT SEL VAL-PEDESTAL	41116	EHAC	EAR	1
HIN	PEDESTAL DUILET	4111H	EB30	EBB	0
HIN	VALUE DOOR PUST GUTLET	4112C	EHHE	EBB	3

PGG	195.J131	04TE =	03/31/7	6			FLIGHT	SAFETY	PREDICT	ICH TECHNIQU
600	00000011111	111112	2222222	211111	3333344	4444444	5555555	5550666	56666667	777777773
	45678901234									
	BLAWER ASS				EB			FEA		111111111
	BLUNER ASS				63	C		ECA		111111111
HIV			2 EA	411		CA		EBC	5	
HIN				411		CB		EBC	8	
HIN		ITCH		411		cc		EBC	4	
HIV	WARM ATE D				EB	E		EBR		ALAAAAAAA
HIN	MARY ATP D	ISTRIE	ITION		Ed	٤		ECA		AAAAAAAA
HIN	VOISE SUP	PRESSI	:	411	18 EB	EA		EGE	1	
HIV	PLFNUM			411	IC FB	FR		EBE	1	
HIN	DUCT PLEN	JA-SEL	VALVE	411	10 60	EC .		EBE	1	
HIV	COUPLING			411	111 E8	EO		EBE	1	
HIN	CLAMP			411	1P E8	EE		ERE	1	
HIV	HEAT AND	DEFROST	SFLECT	OR 411	ZE ER	EF		EBE	. 2	
HIN	AFT OUTLE	T SWITC	H	411	3F FB	EG		EBE	2	
HIN	AFT GUTLE	I LIMIT	SWITCH	411	3G EB	EH		EBE	2	
HIN	MIXING/TEM	P CONTS	101		6.8	F		EBC		AAAAAAAA
HIN	ATENE ATE	CONTA	IL HIXIN	6 411	2B EB	FA		FRF	6	
HIN	OVERHEAT	SHITCH		411	30 EB	FB		EBF	8	
.HIN	OVERHEAT	RELAY		411	3E EB	FC		EBF	5	
HIN	TEMPERATU	RE SELE	CTOR	411	3H EB	FD		EBF	5	
H1%	REMOTE SE			411				EBF	5	
HIN	SENSING T	UBE .		411	3K EB	FF		EBE	1	
HIN	BLEED ATR	SUPPLIF	0		EB	G		EBF		AAAAAAAA
H1N			The state of the s			GA		EAG	1	
HIN	VALVE BLE	ED AIR	SHUTDEF	2 411	24 E3	GB		EBG	1	
H14	CKT 3KR H	EAT		411				EBG	8	
HIN				411				EBG	Δ	
	MINDSHIELD				EC			E		111111111
	MINDSHIFLD				EC			EC .	Y	011010113
HIN:			2 54	411				ECA	0	
HIN		TIVENT	NYE	411				ECV	0	
HIN				411				ECA	1	
HIN				411				ECA	1	
	RAIN REMOV				EC			EC	G	000010110
	PILOTS RAI				EC			ECB		111111111
The state of the s	PILOTS RAT		IAL		EC			ECB	н .	AAAAAAAA
HIN		Y		121				ECC	1	
HIN	464			12E				ECC	8	
HIN	STOP			121				ECC	0	
HIN	HEADGUARD			121				ECC	٥	
HIN	CKT BK?			121				FCC	8	
HIN	SELECTION			121				ECC	5	
HIN	WIPER SWI			121				ECC		
HIN	RESISTON			121				ECC	2	
HIN	MOTOR/CON			126				ECC	A	*******
	MAIN ROTOR		ONED		FA			F	*	CAAAAAAO
HIN	HUS	P(13111	UNED	151				FAA	8	UNANANAU
HIN	GRIP		,	EA 151				FAA	A	
HIN	DRAG BRAC	=		EA 151		100		FAA	a	
112.4	DANG SKAC	•	-	LA 131		70			•	

UF

PGG095.J1R1 DATE = 03/31/76

HIN OUTER COVER

FLIGHT SAFETY PREDICTION TECHNIQUE

	00000111111111122227222223				
HIN		15110	FAAD	FAA	0
HIN		151eE	FAAF	FAA	A
HIN	BLADE BULT TOFAG LINKS4 E		FAAF	FAA	8
HIN		1518F	FAAG	FAA	1
HIN	TRUENION	151EG	FAAH	FAA	3
HIN	PILLOW BLOCK RESERVOIRS F		FAAJ	FAA	1
HIN		151 oJ	FAAK	FAA	3
HIN	MAST YUT	1518K	FAAL	FAA	A
H1"		1518L	FAAM	FAA	4
HIN		1516M	FAAN	FAA	A
HIN		151BN	FAAP	FAA	A
HIN		15100	FAAG	FAA	8
HIN		151CA	FAAR	FAA	0
H114	TRAILING EDGE STRIP 2 EA		FAAS	FAA	0
HIN		15100	FAAT	FAA	0
HIN		15100	FAAU	FAA	0
HIN		151CE	FAAV	FAA	0
HIN		151CF	FAAW	FAA	0
	MAIN ROTHR CONTROLS		FAB	FAA	AAAAAACAA
HIN.	STABILIZER BAR	151AC	FARA	FAB	1
HIN	CENTER FRAME	1514A	FARE	FAB	1
HIN	MIXING LEVER 2 EA	15146	FABC	FAB	8
HIN	SUPPORT	151AC	FABD	FAB	1
HIN	WIRE ROPE	151AD	FARE	FAB	1
HIM	DAMPERS 2 E4	151AF	FARE	FAB	1
H1'4	TUEF 2 FA	151AF	FAUG	FAB	0
HIN:	CNTRERAME/MIXLEVER REARING	G1514G	FASH	FAB	1
H1N	CNTR FRAME/SUPPOPT BEAPING	G151AH	FAHJ	FAB	1
HIN	MIX LEVER/CONT TUBE BEART	N151AJ	FARK	FAB	1
HIN	DAMPER SUPPORT	1514K	FABL	FAB	1
HIN	PITCH HORNS 2 5A	151FC	FARM	FAB	8
HIN	SCISSORS AND SLEEVE ASSY	15100	FARMA	FAB	3
H111	SLEFVE	1510A	FAHN	FAR	1
HIN.	SLEEVE BEARING SET	15108	FABP	FAB	2
HIN	HUB	151UC	FAGO	FAB	2
HIN	SCISSORS	15100	FASR	FAB	1
HIN	PIVOT REARING SET	151DF	FABS	FAB	1
HIN	BEARING LIMER	1510G	FAST	FAB	1
HIN	OF IVE PLATE	1510J	FARU	FAR	8
HIN	SCISSORS/MIX TUD BEARING	1510K	FABV	FAB	1
H1N	BALTS	1510L	FABW	FAB	8
HIN	SWASHPLATE AND SUPPORT AS	S151E0	FABX	FAR	8
HIN	SUPPORT	151E4	FABY	FAB	
HIN	SUPPORT BUSHING	151FB	FABZ	FAB	1
H114	GIMBAL RING	151EC	FAEZA	FAB	2
H14	GIMMAL RING BEARING	151ED	FARZB	FAB	2
HIN	INVER RING	151EE	FARZC	FAH	1
HIN	OUTER PING	151EF	FAHLD	FAR	1
HIN	SHASH PLATE BEARING	151EG	FAEZE	FAB	1

151EJ FABZF

PGGP95.J1R1 DATE = 03/31/76			FLIGHT SAFETY PRE	DICTION TECHNIS
0000000011111111112222222222				
123455789012345678901234567890				
HIN INNER COVER	1511 K	FABLG	FAR	C
HIN BULTS	151EC	FAUZH	FAR	8
HIN CONTROL LINKAGE	151110	FAMZJ	FAb	0
HIN TURE SCISSORS TO STAB BA		FAHZK	FAI	8
HIN CONNECTING LINK DAMPER	151116	FABZL	FAB	1
HIN PITCH LINK	151HC	FABZM	FAS	8
HIN UNIVERSAL "UNKNOWNE	151HD	FAEZN	FAB	0
HIN BOLTS	151HE	FAHZP	FV4	9
HIN COLLECTIVE DRIVE		FAC	FAd	ΛΑΑΛΛΑΑΛ
HIN COLLECTIVE LEVER ASSY	151FC	FACA	FAC	8
HIN SUPPORT BEAPING	151FA	FACE	FAC	2
HIN SPACER	151FB	FACC	FAC	0
HIN SECEVE BEARING	15160	FACD	FAC	2
HIN TRUNKTON	15150	FACE	FAC	
HIN PIN	151FE	FACE	FAC	1
HIN BOLTS	15156	FACG	FAC	8
HIN CONTROL TUBES	1411J	FACH	FAC	8
HIN BELL CRANK	1411K	FACJ	FAC	8
HIN BOOST CYLINDER	14111	FACK	FAC	7
HIN CYLINDER SUPPORT	14114	FACL	FAC	C
HIN SPRING	1411N	FACM	FAC	0
HIN UNIVERSAL	1411P	FACN	FAC	8
HIN CYLINDER BOOT	14110	FACP	FAC	0
HIN LOWER CLEVIS	1411R	FACU	FAC	8
HIN ROLT	14115	FACR	FAC	8
HIN PILOTS COLLECTIVE CONTROLS	S	FAD	FAC	111111111
HIN ILDIS COLLECTIVE CONTROLS	5	FAD	FAC H	AAAAAAAA
HIM STICK	1411A	FADA	FAD	8
HIN FRICTION NUT	14118	FACE	FAD	Ø .
HIN DRAG LINKAGE	14110	FADC	FAD	0
HIN FRICTION SHOE	14110	FADD	FAD	0
HIN HOUSING	14115	FACE	FAO	1
H1N 400T	1411F	FADE	FAU	0
HIN STICK DOWNCOCK	14116	FAUG	FAU	C
HIN JACKSHAFT	1411H	FADH	FAC	A
HIN CYCLIC ORIVE		FAE	FAS	
HINCCYCLIC OFIVE		FAE	F60	FAAAAAAAA
HIN PRIVE LINKS 2 EA	1510H	FAEA	FAE	8
HIM DRIVE LINK BEARING 2 EA	15108	FAES	FAC	2
HIN TRUNNIOUS 4 EA	151EH	FAEC	FAE	8
HIN BOOST CYLINDERS 2 EA	14210	FASD	FAE	7
HIN BOLTS	1421V	FAEE	FAE	8
HIN CONTROL TUPES	1421N	FAEF	FAE	8
HIM SUPPORTS	1421F	FAEG	FAE	
HIN LEVERS	14216	FAEH	FAF	A
HIN POOT CYLINDER	14217	FAFJ	FAE	0
HIN RELICEAUKS	1421M	FALK	FAF	8
HIN UNIVERSALS 2 FA	14218	FAEL	FAF	8
HIN COOTES	14216	E		0

FALM FAEN

14215

FAL

SPRING LOWER CLEVIS

PGG095.JIR1 DATE = 03/31/76

12356789012345		0000011111111111222722222				
HIN FORCE GADIENTS 2 FA 421J FAEU FAE 0 HIN MANETIC BAKK 2 FA 1421K FAEE FAE 0 HIN FUNCE TAIN SWITCH 1421L FAES FAE 1 HIN STICK 1421L FAES FAE FAE 6 HIN FAICTION OUT 1421L FAES FAE 6 HIN PAICTION OUT 1421L FAES FAE 6 HIN BOLTS 1421V FAES FAE FAE 1 HIN BOLTS 1421V FAES FAES FAES 1 HIN SOUTS 1421V FAES FAES 1 HIN SOUTS 1421V FAES FAES 1 HIN SOUTS 1421V FAES FAES 1 HIN ATTENUATION FAES FAES 1 HIN ATTENUATION FAES FAES FAES 1 HIN ATTENUATION FAES FAES FAES 1 HIN STAN SEANING 72 EAC 11645 FAES FAES 7 HIN SYNC ELEVATOR 2 FA 11645 FAES FAES 7 HIN SYNC ELEVATOR 2 FA 11645 FAES FAES 7 HIN SYNC ELEVATOR 2 FA 11645 FAES FAES 7 HIN STAN 2 FA 11645 FAES FAES 7						
HIN MANNETIC MAKE 2 FA 1421K FAER FAER O HIN PORCE THIN SWITCH 1471L FAES FAE O HIN FORCE THIN SWITCH 1471L FAES FAE O HIN FORCE THIN SWITCH 1471L FAES FAE O HIN PILOTS CYCLIC CONTROLS FAF FAE HARMANAMAN HIN STICK 1471E FAFE FAF HAE HAMANAMAN HIN STICK 1471E FAFE FAFE FAFE HAE HAMANAMAN HIN STICK 1471E FAFE FAFE FAFE FAFE O HIN FALCTION BUT 1471E FAFE FAFE FAFE O HIN FALCTION BUT 1471E FAFE FAFE FAFE HAE HAMANAMAN HIN SCIEVE 1471E FAFE FAFE FAFE BUT 1471E FAFE FAFE FAFE BUT 1471E FAFE FAFE FAFE BUT 1471E FAFE BUT 14			The state of the state of			
HIN FORCE TAIN SWITCH 1421L FALS FAF O HIN FORCE TRIP SHITCH 1421L FALS FCC ON HIN FLOTS CYCLIC CONTROLS FAF FAF FAF FAF HAE H AAAAAAAAA HIN STICK 1421L FAFA FAFA FAFA FAFA HIN STICK 1421L FAFA FAFA FAFA FAFA HIN STICK 1421L FAFA FAFA FAFA HIN FAFA FAFA FAFA HIN FAFA FAFA FAFA HIN FAFA FAFA FAFA FAFA FAFA HIN FAFA FAFA FAFA FAFA FAFA FAFA FAFA FA			-			
HIN PILOTS CYCLIC CONTROLS	20 d l 20 d l					
HIN PILOTS CYCLIC CONTRILS						
HIN PILLITS CYCLIC CONTROLS						
HIN STICK 1421B FAFA FAFA HIN GRIP 1421B FAFA HIN GRIP 1421B FAFB FAFA O HIN FRICTION NUT 1421C FAFC FAF C FAFA O HIN FRICTION NUT 1421C FAFC FAFA O HIN PILUTS LATE-AL CONTROL TUDI421N FAFB FAF A B HIN BOLTS 1421V FAFF FAFA A FAFB FAFA B HIN BOLTS 1421V FAFF FAFA B HIN BOLTS POSITIONED FABA FAFA COLUMN ATTENUATION FABA FAFA COLUMN AAAAAAAAAA FAFA FAFA COLUMN AAAAAAAAAA FAFA FAFA COLUMN AAAAAAAAAAA FAFA FAFA COLUMN AAAAAAAAAAA FAFA FAFA COLUMN AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA						
HIN GRIP HIN FRICTION THE 1421C FARC FAR C HAPE FARE FARE HAPE FARE FARE FARE HAPE HAPE FARE C HAPE HAPE FARE FARE HAPE HAPE FARE C HAPE FARE HAPE HAPE FARE C HAPE HAPE FARE HAPE FARE HAPE FARE HAPE FARE HAPE HAPE FARE H			14214			
HIN FRICTION NUT 1-21C FAFC FAF B HIN PILOTS LATE-AL CONTROL 1031421N FAFD FAF B HIN SLEEVE 1471E FAFE FAF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			-			
HIN PILLITS LATE-AL CONTROL TUBICATION HIN SLEEVE 1421V FAFF FAF 8 HIN GIMBAL 1421V FAFF FAF 8 HIN GIMBAL 14210 FAFF FAF 0 HIN AUX LONGITUDINAL CONTROL FAFF FAFF FAFF O HIN AUX LONGITUDINAL CONTROL FAFF FAFF O HIN HORN FAFF FAFF FAFF FAFF FAFF FAFF FAFF FA						
HIN SECYT 1421E FAFE FAF FAF HIN BOLTS 1421V FAFF FAF SEC FAF HIN GIMBAL 14210 FAFF FAF SEC FAF HIN GIMBAL 14210 FAFF FAFF FAFF SEC FAFF HIN BOOT 1421H FAFH FAFF FAFF GENERAL FAFF FAFF GENERAL FAFF GENERAL FAFF GENERAL FAFF FAFF FAFF GENERAL FAFF FAFF GENERAL FAFF FAFF GENERAL FAFF FAFF GENERAL FAFF FAFF FAFF GENERAL FAFF FAF			The state of the s			
HIN BOLTS HIN GIMBAL HIN GIMBAL HIN GIMBAL HIN GIMBAL HIN BOOT HIN AUX LONGITUDINAL CONTROL HIN AUX LONGITUDINAL CONTROL HIN AUX LONGITUDINAL CONTROL HIN AUX LONGITUDINAL CONTROL HIN HORN EBA FBA FBA FBA FBA HILLIIIII HIN ELEVATORS POSITIONED HIN BORT HIN HORN BEARING 11CBE FBCC FBC HIN SUPPORT BEARING 12 E4 11GBF FBCC HIN SUPPORT BEARING 12 E4 11GBC FBCC HIN SKIN 2 E4 11GBC FBCC FBC 0 HIN SKIN 2 E4 11GBC FBCC FBC 0 HIN SKIN 2 E4 11GBC FBCC FBC 0 HIN TRAILING EDGE PLATE2 E4 11GBO HIN TRAILING EDGE PLATE2 E4 11GBO HIN FLEVATOR CONTROLS HIN BOLT FBD FBB HIN CONTROL FBD FBB HIN CONTROL FBC HIN DLER HABIA HABIA CONTROL FBC HABIA HIN DLER HABIA HABIA BELLCTANKS HABIA HABIA GEAM ASSY HABIC HABIA HABIA GEAM ASSY HABIF FBD HABIA HABIA HABIA GEAM ASSY HABIF FBD FBD HIN AUXING EGAM ASSY HABIF FBD HABIA HIN GUIDES HABIA HIN GUIDES HABIF HABIF FBC FCA FCA FCA FCA FCA FCA HIN AUXING EGAM ASSY HABIF FBD HABIA HIN GUIDES HABIF FBD FCA FCA FCA FCA FCA HIN AUXING EGAM ASSY HABIF FBD HIN AUXING EGAM ASSY HABIF FBD FCA FCA FCA FCA FCA FCA HIN AUXING EGAM ASSY HABIF FBC FCA FCA FCA FCA HIN AUXING EGAM ASSY HABIF FBC FCA FCA FCA FCA FCA HIN AUXING FORTORULEOU FCA FCA FCA FCA FCA HIN TAIL ROTOR 15200 FCB HIN SKIN 2 EA 152AO FCB FCB HIN SKIN 2 EA 152AO FCB FCB HIN SKIN 2 EA 152AO FCB FCB HIN RETAINING NUT 152BB FCB HIN BEARING, PITCH CHANGF 152BC FCB HIN BEARING, PITCH CHANGF HIN BEARING, PITCH CHA		그 아이들이 가는 이 그 아이들이 얼마나 되었다. 그 집에 가는 사람들이 되었다. 그 없는데 그 없는데 그리고 있다.	11.50			
HIN GIMBAL HIN BOCT HIN AUX LONGITUDINAL CENTROL HIN AUX LONGITUDINAL CENTROL HIN ATTENUATION HIN ATTENUATION HIN RELEVATORS POSITIONED HIN HORN HIN HORN HIN HORN HIGH FACH HIN SYNC ELEVATOR 2 EA 11686 FACC HIN SUPPORT BEARING 72 EAC 11686 FACC HIN SYNC ELEVATOR 2 EA 11686 FACC HIN STAN 2 EA 11686 FACC HIN STAN 2 EA 11686 FACC HIN RIB 2 FA 11680 FACC HIN TRAILING EDGE PLATE2 EA 11680 FACC HIN TRAILING EDGE PLATE2 EA 11680 FACC HIN BOLT E2 EA 11680 FACC HIN BOLT E2 EA 11680 FACC HIN GONTROL HIN CONTROL HIN CONTROL HIN SUPPORT HAST HIN IDLER 1431A FABOA HIN IDLER 1431A FABOA HIN IDLER 1431C FABOC HIN BOLL HIN HALKING EEAM ASSY HAST HAST HIN HALKING EEAM ASSY HAST HAST HIN HALKING EEAM ASSY HAST HIN HALKING EEAM ASSY HAST HIN BOLL				the same transfer and the		
HIN						
HIN AUX LONGITUDINAL CENTROL						
HIN ATTENUATION HIN ELEVATORS POSITIONED HIN ELEVATORS POSITIONED HIN HORN HIN SERVING 11GEF FBCC FBC 2 HIN SUPPORT BEATING 72 E44 11GeG FBCC FBC 0 HIN SKIN 2 EA 11GeB FBCF FBC 0 HIN SKIN 2 EA 11GBB FBCF FBC 0 HIN SAR 2 EA 11GBB FBCF FBC 0 HIN TRAILING EDGE PLATE2 EA 11GBO FBCH FBC HIN BOLT FC BA HIN ELVATOR CONTROLS FBD FBB HIN FILER HIN LOWER 1431A FBOA FBO FBB HIN IDLER SUPPORT 1431C FBOB FBD BH HIN BELLCRANKS HAN GEAM ASSY HABIF FBOF FBO HIN MALKING EBAM ASSY HABIF FBOF FBO HIN ANTI TOPOUE/DIRECTIONAL CON FCA FBO FCA FBO FCA FBO FCA FBO OPALLED FCB FCA FBO OPALLED FCB FCA						
HIN ELEVATORS POSITIONED FBC FB3 AAAAAAAAA HIN HORN 11CE FBCB FBC 8 HIN HORN 11GEF FBCB FBC 2 HIN SUPPORT BEATING 12 EAX 11GBG FBCC FBC 1 HIN SYNC ELEVATOR 2 EAX 11GBG FBCC FBC 0 HIN SYNC ELEVATOR 2 EAX 11GBG FBCF FBC 0 HIN SYNC ELEVATOR 2 EAX 11GBG FBCF FBC 0 HIN SYNC ELEVATOR 2 EAX 11GBG FBCF FBC 0 HIN SYNC ELEVATOR 2 EAX 11GBG FBCF FBC 0 HIN SYNC ELEVATOR 2 EAX 11GBG FBCF FBC 0 HIN SYNC ELEVATOR 2 EAX 11GBG FBCF FBC 0 HIN STAR 2 EAX 11GBG FBCF FBC 0 HIN RTAILLING EDGE PLATE2 EAX 11GBG FBCF FBC 0 HIN SOLT F2 EAX 11GBH FBCJ FFC 8 HIN SOLT TORONTROLS FBC FBC 8 HIN SULFR TANABA FBCF FBC 8 HIN SULFR TANABA FBCF FBC 8 HIN SULFR TANABA TANABA TANABA TANABA HIN SULFR TANABA TANABA TANABA TANABA TANABA HIN SULFR TANABA TANABA TANABA TANABA TANABA HIN AANTI TORONTROLLEO FCA FCA FCA HIN AANTI TORONTROLLEO FCA FCA FCA HIN ALADE TANABA TANABA FCA FCA FCA HIN ALADE TANABA TANABA FCA FCA FCA HIN SULFR TANABA TANABA FCA FCA FCA FCA HIN SULFR TANABA TANABA FCA FCA FCA FCA FCA HIN SULFR TANABA TANABA FCA						
HIN HORN 11CRE FRCA FBC 8 HIN HORN 3EARING 11CRE FBCB FBC 2 HIN SUPPORT BEARING 22 EA 11CRE FBCC FBC 1 HIN SYNC ELEVATOR 2 EA 11CRE FBCC FBC 0 HIN SKIN 2 EA 11CRE FBCF FBC 0 HIN SKIN 2 EA 11CRE FBCF FBC 0 HIN RIB 2 EA 11CRE FBCG FBC 0 HIN RIB 2 EA 11CRE FBCG FBC 0 HIN TRAILLING EDGE PLATE2 EA 11CRE FBCE FBC 0 HIN TRAILLING EDGE PLATE2 EA 11CRE FBCE FBC 0 HIN ELEVATOR CONTROLS FBC FBC 6 HIN CONTROL FBCE FBCE FBC 6 HIN CONTROL TURBES 14314 FBCE FBC 8 HIN LOLER SUPPORT 14316 FBCE FBC 8 HIN LOLER SUPPORT 14316 FBCE FBC 8 HIN BELLCTANKS 14316 FBCE FBC 8 HIN BULLCTANKS 14316 FBCE FBC 8 HIN BULLCTANKS 14316 FBCE FBC 8 HIN ANTI TOPOULE/DIRECTIONAL CON FCA FCA FCCA FCCA FCCA HIN ANTI TOPOULE/DIRECTIONAL CON FCA FCCA FCCA FCCA FCCA HIN ANTI TOROULE/DIRECTIONAL CON FCCA FCCA FCCA AAAAAAAAAAAAAAAA						
HIN HORN SEARING			LICHE			
HIN SUPPORT BEARING 22 E44 11G-6G FBCC FBC 0 HIN SYNC ELEVATOR 2 EA 11G-8A FBCF FBC 0 HIN SKIN 2 EA 11G-8A FBCF FBC 0 HIN SKIN 2 EA 11G-8A FBCF FBC 0 HIN RIB 2 EA 11G-8C FBCG FBC 0 HIN RIB 2 EA 11G-8C FBCG FBC 0 HIN RIB 2 EA 11G-8C FBCG FBC 0 HIN RIB 6 EACH FBC C HIN BOLT F2 EA 11G-8C FBCG FBC C HIN BOLT F2 EA 11G-8C FBCG FBC C HIN BOLT F2 EA 11G-8C FBCG FBC C HIN BOLT F2 EA 11G-8C FBC BBC C HIN BOLT F2 EA 11G-8C FBC BBC C HIN BOLT F2 EA 11G-8C FBC BBC BBC BBC BBC BBC BBC BBC BBC BB						
HIN SYNC ELEVATOR 2 EA 11GBO FBCD FBC O HIN SKIN 2 EA 11GBO FBCF FBC O HIN SKIN 2 EA 11GBO FBCF FBC O HIN SPAR 2 EA 11GBO FBCG FBC O HIN RIB 2 EA 11GBO FBCG FBC O HIN TRAILING EDGE PLATE2 EA 11GBO FACH FBC C HIN BOLT FE EA 11GBO FACH FBC C HIN ELEVATOR CONTROLS FBD FBD B HIN ELEVATOR CONTROLS FBD FBD B HIN DUFR 14310 FBOD FBD B HIN DUFR 14310 FBOD FBD B HIN DELLCRANKS 14310 FBOD FBD B HIN DELLCRANKS 14310 FBOD FBD B HIN WALKING EEAM ASSY 1431F FBOF FBD B HIN ANTI TOROUE/DIRECTIONAL CON FCA F C9A111290 HIN ANTI TOROUE/DIRECTIONAL CON FCA F C9A111290 HIN ANTI TOROUE/DIRECTIONAL CON FCA FCB FCB HIN RITOR CONTROLLFO FCB FCB FCB HIN GRIP PLATE 2 EA 152AO FCBB FCB B HIN GRIP PLATE 2 EA 152AO FCBB FCB B HIN SKIN 2 EA 152AO FCBF FCB O HIN CURE 2 EA 152AO FCBF FCB D HIN TRUNNION SFT 152BO FCBH FCB B HIN TRUNNION SFT 152BO FCBH FCB B HIN TRUNNION SFT 152BO FCBH FCB B HIN RETAINING NUT 152BC FCBH FCB A HIN BEARING, PITCH CHANGE 152BD FCBH FCB ECBH ECBH ECBH ECBH ECBH ECBH ECBH ECBH ECBH EC						
HIM SKIN 2 EA 1168A FBCF FBC 0 HIN SPAR 2 EA 1168B FBCF FBC 0 HIN RIB 2 EA 1168C FBCG FBC 0 HIN RIB 2 EA 1168C FBCH FBC 0 HIN RIB 2 EA 1168C FBCH FBC 0 HIN SOLT F2 EA 1168H FBCJ FFC 6 HIN SOLT F2 EA 1168H FBCJ FFC 6 HIN ELEVATOR CONTROLS FBD FBD 8 HIN CONTROL TUBES 1431A FBOA FBD 8 HIN IDLER SUPPORT 1431C FADC FBD 1 HIN DELLCRANKS 1431D FADD FFD 8 HIN DELLCRANKS 1431D FADD FFD 8 HIN BUIDES 1431F FADF FBD 3 HIN GUIDES 1431F FADF FBD 1 HIN ANTI TOPOUE/DIRECTIONAL CON FCA F						
HIN SPAR 2 EA 11688 FBCF FBC 0 HIN RIB 2 EA 1168C FBCG FBC 0 HIN TRAILING EDGE PLATE2 EA 1168D FBCH FBC C HIN BOLT F2 EA 1168H FBCJ FFC 8 HIN ELEVATOR CONTROLS FBD FBD 8 HIN CONTROL TUBES 1431A FBGA FBO 8 HIN IDLER SUPPORT 1431C FBGC FBD 1 HIN DELECRANKS 1431D FBGD FBD 1 HIN DELECRANKS 1431D FBGD FBD 3 HIN MALKING EBAM ASSY 1431F FBGF FBD 3 HIN MALKING EBAM ASSY 1431F FBGF FBD 1 HIN ANTI TORQUE/DIRECTIONAL CON FCA F C9A111270 HIN ANTI TORQUE/DIRECTIONAL CON FCA F C9A111270 HIN ANTI TORQUE/DIRECTIONAL CON FCA F CB O00042000 HIN TAIL ROTOR FCA FCB FCA AAAAAAAAAAAAAAAAAAAAAAAAAAA						
HIN RIB 2 EA 1168C FBCG HIN TRAILING EDGE PLATEZ EA 1168D FACH BECH HIN BOLT HIN BOLT HIN ELFVATOR CONTROLS FBD FBD FBD HIN CONTROL TUBES 1431A FBDA FBD B HIN IDLER 1431B FBDB FBD B HIN IDLER SUPPORT 1431C FBDC FBD HIN BELLCRANKS 1421D FBDD FBD HIN WALKING EBAM ASSY 1431F FBDF FBD HIN ANTI TORDUE/DIRECTIONAL CON FCA F GALLERO HIN ANTI TORDUE/DIRECTIONAL CON FCA F GALLERO HIN TAIL ROTOR CONTROLLED FCB FCB HIN GIPPLATE 2 EA 152AD FCBB HIN BUSHING 2 EA 152AD FCBB HIN BUSHING 2 EA 152AD FCBB HIN BUSHING 2 EA 152AD FCBB HIN GURE 152B FCB HIN TRUNNION SFT 152B FCB HIN GEARING, PITCH CHANGF 152B FCB HIN BEARING, PITCH CHANGF 152B FCBN FCB HIN BEARING, FLAPPING 152B FCBN FCB HIN BEARING, FLAPPING 152B FCBN FCB FCB FCB FCB FCB FCB FCB						
HIN TRAILING EDGE PLATE2 EA 11680 FRCH FBC C HN 3DLT F2 EA 1168H FBCJ FFC B AAAAAAAAA HIN ELEVATOR CONTROLS FBD FBD FBB AAAAAAAAAA HIN CONTROL TUBES 1431A FBDA FBD B HIN 13LER 1431B FBDB FBD B HIN 13LER 1431B FBDB FBD B HIN 13LER SUPPORT 1431C FBDC FBD 1 HIN DELLCRANKS 1431D FBDD FBD B HIN GUIDES 1431F FBDE FBD B HIN GUIDES 1431F FBDE FBD B HIN ANTI TORQUE/DIRECTIONAL CON FCA F C9A11187D FCB FCB FCA AAAAAAAAA HIN TAIL ROTOR CONTROLLFD FCB FCB FCB D HIN ANTI TORQUE/DIRECTIONAL CON FCB FCB FCB HIN BUSHING 2 EA 152AD FCBB FCB B HIN GUIDES FCB FCB B HIN TRUNNION SFT 152BA FCBJ FCB	10 30 300					
HIN BOLT F2 EA 1168H FBCJ FBC 8 HIN ELEVATOR CONTROLS FBD FBD 8 HIN CONTROL TUBES 14314 FBDA FBD 8 HIN IDLER 14316 FBDB FBD 8 HIN IDLER SUPPORT 14310 FBDD FBD 1 HIN BELLCRANKS 1431D FBDD FBD 3 HIN GUIDES 1431F FBDE FBD 3 HIN GUIDES 1431F FBDF FBD 1 HIN ANTI TOPQUE/DIRECTIONAL CON FCA F C9A11187D HIN ANTI TORQUE/DIRECTIONAL CON FCA F C9A11187D HIN TAIL ROTOR 15200 FCBA FCB 0 HIN TAIL ROTOR 15200 FCBA FCB 0 HIN GRIP PLATE 2 EA 152AB FCBC FCB BHIN BUSHING 2 EA 152AB FCBC FCB BHIN SKIN 2 EA 152AB FCBC FCB BHIN CURE 2 EA 152AB FCBD FCB HIN SKIN 2 EA 152AB FCBD FCB BHIN GRIP PLATE 152BB FCBK FCB L			E - 1000 E			
HIN ELEVATOR CONTROLS	200		The state of the s			
HIN CONTROL TUBES 14314 FB0A FB0 8 HIM IDLER 14316 FB0B FB0 8 HIN IDLER SUPPORT 1431C FBDC FBD 1 HIN BELLCRANKS 1431D FBD0 FBD 1 HIN BELLCRANKS 1431F FBDE FBD 3 HIN GUIDES 1431F FBDF FBD 3 HIN GUIDES 1431F FBDF FBD 1 HIN ANTI TORQUE/DIRECTIONAL CON FCA F GALILERO HIN ANTI TORQUE/DIRECTIONAL CON FCA F GALILERO HIN TAIL ROTOR CONTROLLED FCB FCB AAAAAAAAAA HIN GRIP PLATE 2 EA 152AC FCBB FCCB BHIN GRIP PLATE 2 EA 152AC FCBC FCB HIN BUSHING 2 EA 152AC FCBC FCB HIN SKIN 2 EA 152AC FCBC FCB GALILERO HIN CURE 2 EA 152AC FCBC FCB HIN GUIDE 2 EA 152AC FCBC FCB HIN GUIDES 152BC FCBC FCB GALILERO HIN TRUNNION SFT 152BC FCBC FCB BHIN HUB HIS HIN GRIP PLATE 152BC FCBC FCB HIN HUB HIS HING FCB FCB GALILERO HIN GRIP PLATE 152BC FCBC FCBC FCB HIN HUB HIS HING FCB FCB GCB FCB FCB FCB GCB FCB FCB FCB FCB FCB FCB FCB FCB FCB F	2000		***************************************			
HIN IDLER SUPPORT 14316 F508 FB0 8 HIN IDLER SUPPORT 1431C FADC FB0 1 HIN BELLCRANKS 1431D FB00 F50 8 HIN WALKING EBAM ASSY 1431F FADE FBD 3 HIN GUIDES 1431F FADF FB0 1 HIN ANTI TOPOUE/DIRECTIONAL CON FCA F C9A111270 HIN ANTI TOROUE/DIRECTIONAL CON FCA F GOOCACOOD FCA FCA FCA AAAAAAAAAA FCB			14314			
HIN IDLER SUPPORT 1431C FABC FBD 1 HIN BELLCTANKS 1431D FBDD FBD 8 HIN WALKING EEAM ASSY 1431F FADE FBD 3 HIN GUIDES 1431F FADE FBD 3 HIN ANTI TOROUE/DIRECTIONAL CON FCA F GARLIERD HIN ANTI TOROUE/DIRECTIONAL CON FCA F B DOCCASOOD FCB FCA FCB PCB FCA AAAAAAAAAA FCB FCB PCB FCB FCB PCB FCB FCB PCB FCB FCB PCB FCB PCB FCB PCB PCB PCB PCB PCB PCB PCB PCB PCB P	100		The second second			
HIN BELLCRANKS 1431D FROD FROD 8 HIN WALKING ERAM ASSY 1431F FROE FROD 3 HIN GUIDES 1431F FROF FROD 1 HIN ANTI TOPOUE/DIRECTIONAL CON FCA F COALLED FROM 11 FROM FCA F COALLED FOB FCA AAAAAAAAA FCA F FCA AAAAAAAAA FCA FC						
HIN WALKING CEAM ASSY 1431F FROE FRO 1 HIN GUIDES 1431F FROF FRO 1 HIN ANTI TOPOUC/DIRECTIONAL CON FCA F GOALILED HIN ANTI TOROUC/DIRECTIONAL CON FCA F B 0000000000000000000000000000000000	The second second					
HIN GUIDES						
HIN ANTI TOPDUE/DIRECTIONAL CON						
HIN ANTI TORQUE/DIRECTIONAL CON	100000000000000000000000000000000000000					
HIN TAIL ROTOR CONTROLLED	-	그 사람들이 하는 그들이 그 사람들이 들어가면 하는 것이 되었다. 그리고 하는 것이 없는 것이 없는 것이 없는 것이 없는 것이다.				
HIN TAIL ROTOR 15200 FCBA FCB 0 HIN HLADE 2 EA 152AO FCBB FCB B HIN GRIP PLATE 2 EA 152AA FCBC FCB B HIN BUSHING 2 EA 152AB FCBD FCB 1 HIN SKIN 2 EA 152AB FCBE FCB 0 HIN CURE 2 EA 152AB FCBF FCB 0 HIN HUB 152BB FCBH FCB B HIN TRUNNION SFT 152BB FCBJ FCB B HIN WOKE 152BB FCCK FCB B HIN RETAINING NUT 152BC FCBL FCB A HIN BEARING, PITCH CHANGE 152BC FCBN FCB 1						
HIN BLADE 2 EA 152AO FCBB FCB B HIN GRIP PLATE 2 EA 152AA FCBC FCB B HIN BUSHING 2 EA 152AB FCBO FCB 1 HIN SKIN 2 EA 152AC FCBE FCB O HIN CURE 2 EA 152AO FCBF FCB O HIN HUB 152BO FCBH FCB B HIN TRUNNION SFT 152BA FCBJ FCB B HIN TRUNNION SFT 152BB FCBK FCB B HIN RETAINING NUT 152BC FCBL FCB A HIN BEARING, PITCH CHANGE 152BD FCBM FCB 2 HIN BEARING, FLAPPING 152BE FCBN FCB 1			15200			
HIN GRIP PLATE 2 EA 152AA FCBC FCB B HIN BUSHING 2 EA 152AB FCBD FCB 1 HIN SKIN 2 EA 152AC FCBE FCB 0 HIN CURE 2 EA 152AO FCBF FCB 0 HIN HUB 152BO FCBH FCB B HIN TRUNNION SFT 152BA FCBJ FCB B HIN YOKE 152BB FCCK FCB B HIN RETAINING NUT 152BC FCBL FCB A HIN BEARING, PITCH CHANGE 152BD FCBM FCB 1	and the same					
HIN BUSHING 2 EA 152AB FCBD FCB 1 HIN SKIN 2 EA 152AC FCBE FCB 0 HIN CURE 2 EA 152AO FCBF FCB 0 HIN HUB 152BO FCBH FCB 8 HIN TRUNNION SFT 152BA FCBJ FCB 8 HIN YOKE 152BB FCCK FCB 8 HIN RETAINING NUT 152BC FCBL FCB A HIN BEARING, PITCH CHANGE 152BD FCBM FCB 2 HIN BEARING, FLAPPING 152BE FCBN FCB 1				The second secon		
MIN SKIN 2 EA 152AC FCRE FCB 0 MIN CURE 2 EA 152AO FCBF FCB 0 MIN HUB 152BO FCBH FCB 8 MIN TRUNNION SFT 152BA FCBJ FCB 8 MIN YOKE 152BB FCCK FCB 8 MIN RETAINING NUT 152BC FCBL FCB A MIN BEARING, PITCH CHANGE 152BD FCBM FCB 2 MIN BEARING, FLAPPING 152BE FCBN FCB 1	-					
HIN CURE 2 SA 152AO FC3F FCB O HIN HUB 1523O FC3H FCB B HIN TRUNNION SFT 152BA FCBJ FCB B HIN YOKE 152BB FCCK FCB B HIN RETAINING NUT 152BC FCBL FCB A HIN BEARING, PITCH CHANGE 152BD FCBM FCB 2 HIN BEARING, FLAPPING 152BE FCBN FCB 1	ANTEN CONTRACTOR					
HIN HUB 15230 FCBH FCB 8 HIN TRUNNION SET 1526A FCBJ FCB 8 HIN YOKE 1526B FCCK FCB 8 HIN RETAINING NUT 1528C FCBL FCB A HIN BEARING, PITCH CHANGE 1528D FCBM FCB 2 HIN BEARING, FLAPPING 1528E FCBN FCB 1						The state of the s
HIN TRUNNION SET 1526A FCBJ FCB 8 HIN YOKE 1526B FCEK FCB 8 HIN RETAINING NUT 1528C FCBL FCB A HIN BEARING, PITCH CHANGE 1528D FCBM FCB 2 HIN BEARING, FLAPPING 1528E FCBN FCB 1						
MIN YOKE 1528B FCEK FCB 8 MIN RETAINING NUT 152RC FCBL FCB A MIN BEARING, PITCH CHANGE 152BD FCBM FCB 2 MIN BEARING, FLAPPING 152BE FCBN FCB 1	200					
MIN RETAINING NUT 152RC FCBL FCB A HIN BEARING, PITCH CHANGE 152BD FCBM FCB 2 HIN BEARING, FLAPPING 152BE FCBN FCB 1						
HIN BEARING, PITCH CHANGE 152BD FCBM FCB 2 HIN BEARING, FLAPPING 152BE FCBN FCB 1	140 00000000000000000000000000000000000					
MIN BEARING. FLAPPING 1528E FCBN FCB 1			all the contract of			
	and the latest and th					
					FCB	AAAAAAAA

PGG095.JIR1 JATE = 03/31/76

00000000111111111122222222223	33333333	33444444444455555 89012345678901234	55555666666666666666666666666666666666	6677777777718 8901234567890
HIT LEVER	1442A	FCCA	FCC	8
HIN IDLER	14428	FCCB	FCC	9
HIN CONTROL TUPE	14420	FCCC	FCC	8
HIN CONTROL TUBE BEARING	14420	FCCD	FCC	2
HIN BEARING HOUSING	1442E	FCCE	FCC	1
HIN CROSSHEAD	14421	FCCF	FCC	В
HIN CROSSHEAD MEARING	14426	FCCG	FCC	2
HIN PITCH LINK AZ FAC	1442H	FCCH	FCC	8
HIN COUNTERWEIGHT PELLCRANK	1442K	FCCK	FCC	3
HIN COUNTERWEIGHT LINK	1442L	FCCL	FCC	8
HIN CONTROL TUSES	14411	FCCM	FCC	8
HIM BELLCRANKS	14411	FCCN	FCC	8
HIN BOOST CYLINDER	14414	FCCP	FCC	7
HIN LINK	1441N	FCCQ	FCC	9
HIN MAGNETIC BRAKE	1441H	FCCR	FCC	0
HIN FORCE GRADIENT	14416	FCCS	FCC	0
HIN LEVERS	1441K	FCCT	FCC	8
HIN PITCH HORN	152AE	FCCU	FCC	8
HIN GILOTS CONTROLS		FCD	FCC	111111111
HIN PILCTS CUNTRULS		FCD	FCC H	AAAAAAAA
HIN PEDALS	14411	FCDA	FCD	1
HIN PEDAL ADJUSTERAL INKAGES		FCDB	FCD	5
HIN PEDAL AUJUSTER SHAFT	14410	FCDC	FCU	O
	14410	FCOD	FCO	0
	14416	FCDE	FCO	0
HIN TUBE. PEDAL TO ADJUSTER		FCDF	FCD	8
HIN TAIL ROTOR DRIVE		FCE	FCB	AAAAAAAA
HIN TAIL ROTER ORIVE WULLL	20116	FCEA	FCE	8
HIN TAIL ROTCE DRIVESHAFT	26510	FCEN	FCE	0
HIN SHAFT SECTION X6 FAC	2651A	FCEP	FCE	8
HIN CLAMP EMULTIC	26516	FCEO	FCE	1
HIN HANGER ASSY 14 EA)	26610	FCER	FCE	8
HIN HANGEP 84 EAC	2661A	FCES	FCE	3
HIN DUTER COUPLING	20013	FCET	FCE	9
HIN SPHERICAL COUPLING 44 EAK		FCEU	FCE	3
HIN SHAFT COUPLING MA FAC	26610	FCEV	FCE	8
HIN SEAL %4 EAC	26616	FCEW	FCE	1
HIN BEARING X4 EAC	2661F	FCEX	FCL	2
HIN TAIL POTOR CHIP DETECTION		FCF	FCB I FC	
HIN TAZ DEG GENBOX CHIP DET	20216	FCFA	FCF	4
HIN TAZ DEG GEARETX CHIP DET L		FCFB	+CF	4
HIN TOO DEG GEARBOX CHIP DET	20415	FCFC	FCF	Δ
HIN 90 DEG GEAPBOX CHIP DET LT		FCFD	FCF	A
HIN SEGMENT	4432E	FCFF	FCF	1
HIN LAMP	4432F	FCFG	FCF	
HIN TALL HOTOR GEARBOX DRIVE		FCG	FCB	-
HIN TAIL ROTOR GEARBOX DRIVE		FCG	FCF	FAAAAAAAAA
MIN TAIL ROTOR 42 DEG GEARBOX	26310	FCGB	FCG	8
HIN INPUT QUILL	26314	FCGC	FCG	8
HIN OUTPUT QUILL	26318	FCGD	FCG	8

PGG295.JIR1 DATE = 03/31/76

	000000111111111112222222222 4567890123456789012345678901					
1111	FILLER CAP	26310	FCLE	FCG		0
HIV	SIGHT GAGE	26310	FUGF	FCG		0
HIN	TAIL ROTOR 90 DEG GEARPOX		FCGG	FCG		8
HIN	INPUT OUTLL	2641A	FCGH	FCG		8
H14	GUTPUT QUILL	2641P	FLGJ	FCG		8
1113	FILLER CAD	2541C	FCGK	FCG		0
1113	SIGHT GAGE	26410	FCGL	FCG		C
111%	ROTOR SHAFT	26416	FCGM	FCG		9
1115	HYSPAULIC DISTRIBUTION		FDA	FAH		5072222770
1115	HYDRAULIC DISTRIBUTION		FDA	FAB	B	\$000090000
H1 1	MYDRAULIC DISTRIBUTION		FDA	FAB	н	SAAAAAAAAA
F1'	HYDRAULIC DISTRIBUTION		FDA	FAC		F999949999
111	HYDRAULIC DISTRIBUTION		FOA	FAF		F999999999
H1%	SYSTEM NO.1 CONTROLIDIST		LEDB	FCC		001010133
1111	SYSTEM NO.1 CONTROL/DIST		LFDB	FDA	KREDB	ΑΔΑΔΑΔΑΔΑ
111 V	SYSTEM NO. 2 DIST		REDB	FDA	KLFDB	AAAAAAAA
11111	ELECTRICAL CONTROLS	45130	LFDBA	LFD9	100	0
HIN	ELECTRICAL CONTROLS	45130	REDRA	REDB		0
. H1 V	CKT BKR	4513A	LEDBB	LEDS		0
H1"	CKT BKR	4513A	REDBB	RFOR)
H174	CONTRUL SAITCH .	45138	LFDSC	LFDB		0
H1:	CONTROL SAITCH	45136	REDHC	RFDB		0
HIM	BYPASS VALVE	4513C	LFORD	LF08		
HIN	RYPASS VALVE	4513C	REDED	RFDB		1
H1"	MASTER SAITCH	4513H	LFOSE	LFDB)
H1:	MASTER SWITCH	4513H	REDRE	FFDB		0
41'.	PRICRITY RELAY	4513J	LEDBE	LFDB)
HIV	PRIGRITY SELVA	4513J	REDBE	RFDB	(
141:.	PRESSUPE SWITCH	4513F	LEGEG	LFDB		5
H1:	PRESSURE SALTCH	4513F	REDEG	RFUB		5
H1"	SYSTEM PRESSURE		LFDC	L FD9		ALAAAAAAA
111	SYSTEM PRESSURF		LFUC	L FDD		FAAAAAAAAA
H1:	YSTEM PRESSURE		REDC	REDB		AAAAAAAA
1111	SYSTEM PRESSURE		REDC	RFDD		FAAAAAAAA
111.	RESERVITE	45110	LFDCA	LFOC		
*11	RESERVIIA	45110	KEDCA	REDC		COLUMN SAME
411	SIGHT PLUG	4511A	LFUCE	LFDC	(
"11"	SIGHT PLUG	45114	REDCB	RFDC	()
H1'1	FILLER CAP	45118	LFDCC	LFDC	(
.11.	FILLER CAP	45118	REDCC	RFDC		
111":	FILLER SCHEEN	4511C	LFOCO	LFDC	. (
H14	FILLER SCHEEN	4511C	PENCO	REDC		
*11'.	VENT SCREEN	45110	LFOCE	LFDC		
1111	VENT SCREEN	45110	REDGE	RFDC	(
414:	SCUDDER DOAIN	4511F	LFDCF	LFDC	1	ATRES SER
H114	SCUDDEN DRAIN	4511E	KFOCF	REDC		1112 1121
41.	PUMP	4512A	LFDCG	L FUC		
41.1	PLIMP	4512A	OPOCG	RFDC		
414	CHECK VALVE	4512H	LEDCH	LFDC		
414	CHECK VALVE	45124	RFUCH	REDC		

PGG095.J1R1 DATF = 03/31/76			FLIGHT SAFETY PR	EDICTION TECHNIQ
000000000111111111122222222222	3333333	3344444444	44555555555566666	666677717777777
123456784012345678901234567890	012:4561	49012345011		
MIN RELIEF VALVE	45120	LFOCI	LFDC	2
			REDC	2
HIN INT. VALVE AND FILTER ASS			LFDC	8
HIN INT. VALVE AND FILTER ASS			KFDC	
HIN PRESS OPER SHUT DEE VALVE			L.FDC RFDC	1
HIN PRESS OPER SHUT OFF VALVE				
HIN GROUND TEST COUPLING HIN GROUND TEST COUPLING	45125	LFUCM	LFDC	0
HIN GROUND TEST COUPLING	4512F	REDCM	REDC	0
그는 일이 집에 가는 것이 없는 것이 없다면 살아왔다. 그 그림에 이 그를 가지 않는데 그를 가지 않는데 그를 가지 않는데 그를 가지 않는데 그를 다 되었다.	4512G	LFOCK	LFDC	0
HIN DUST CAP	4512G	REDCN	RFDC	
HIN FILTER ELEMENT APRESSO HIN FILTER ELEMENT APRESSO	45121	LFCCP	LFDC	1
HIN FILTER ELEMENT APRESS	45124	RFDCP LFUCO	R F D C L F D C	1 0
HIN FILTER ELEMENT TRETURNS	45123		RFDC	Ö
HIN FILTER ELEMENT TRETURNS	45123	2FDCQ		
HIN ACCUMULATOR HIN ACCUMULATOR HIN ACCUMULATOR HIN IRREVERSIBLE VALVE HIN IRREVERSIBLE VALVE HIN HYD FILTER IND HIN HYD FILTER IND HIN NO I HYD PUMP CUILL HIN NO I HYD PUMP CUILL	4512K	LFDCR	L FDC RFDC	1
HIN ACCUMULATUR	4512K	RFUCR	LFDC	i
HIN IRREVERSIBLE VALVE	45124	LFDCS		
HIN IRREVERSIBLE VALVE	4512M	REDCS	RFDC	1
HIN HYD FILTER IND	4513K	LFDCT	L FOC RFDC	C
HIN HYD FILTER IND	4513K	REUCT		A
HIN NO 1 HYD PUMP CUILL	26116	LFCCU	LFDC	A
HIM WY & WID BOWL WOILT	26113	KFUCU	RFDC	
HIN THERMAL RELIEF VALVE	45121	LFDCV	LFDC	
HIN THERMAL RELIEF VALVE	4512N	REDCV	RFDC	1 0.00000000
HIN SYSTEM FAILURE WARNING		LFOU	LFDB	000000000
HIN SYSTEM FAILURE WARNING HIN PRESSURE SWITCH		REDO	RFDJ	000000000
HIN PRESSURE SVITCH	45135	LEODA	LFDD	8
HIT PRESSURE SHITCH	45136	REDDA	REDD	3 A
HIN LAMP	45136	REDDR	LFDD RFDD	Ä
HIN SEGMENT	45136	LFOUD	LFDD	Ä
HIN SEGMENT	44326	25000	RECO	Ä
HIN SEGMENT	44326	LFODE	LFDD	Ä
HIN LAMP	4432F	REDDE	2600	Ã
HIN GRUUND CONTROL	44321	G	3700	ALAALAAA
HIN GROUND MANEUVER		GA	G	000000000
MIN COMMA MATCH THE SHEETS	13710	GAA	GA	0
HIN TOW FITTING	13115	GAB	GA	
HIN EYE BOLT	13114	GAC	GA	
HIN WHEELS	13214	GAD	GA	
HIN TIRES	13214	GAE	GA	
HIN TUBES	13216	GAF	GA	
HIN PUMP HYDRAULIC	13210	GAG	GA	
HIN TOW FITTING HIN EYE AOLT HIN WHEELS HIN TIRES HIN TUBES HIN PUMP HYDRAULIC HIN CRADLE HIN BELL CRANK HIN RAMS HIN HOSE	13216	GAH	GA	ò
HIN BELL CRANK	13216	GAJ	GA	Ŏ
HIN RAMS	13216	GAK	GA	Ö
HIN HOSE	1321H	GAL	GA	ŏ
HIN PIN ATTACHMENT	13211	GAM	GA	ŏ
HIN PIN ATTACHMENT	1321K	GAN	GA	ŏ
HIN TRUNNIEN	13211	GAP	GA	Ŏ
THE PROPERTY OF			V	

PGG095.JIR1 DATE = 03/31/76

123	00000011111111111 22222222223 456789012345 478901234567890	3333333. 1234567	33444444444445 89012345678901	55555555566666 123455789C123 45	66667777777773 6789C1234567890
HIN		1321M	GAO	GA	U
HIN	MISSION SUPPORT		M		AAAAAAAA
HIN	OFFENSIVE ARMAMENT		MA	M	001111130
HIN	AIMING		MAA	MA	000000000
HIN	XM-GO SIGHT	75250	MAAA	MAA	8
HIN	TRUOM	7525A	MAAH	MÀA	1
HIN	POWER CONTROL HOUSING	75258	MAAC	MAA	1
HIN	BODY ASSY	75250	MAAD	MAA	8
HIN	CIRCUIT BREAKER	75250	MAAE	MAA	8
HIN	RETICLE LAMP	7525F	MAAF	MAA	Δ
HIN	RETICLE LAMP SWITCH	7525F	HAAG	MAA	Α
HIN	AHFOSTAT	7525G	MAAH	MAA	A
HIN	GUNS/GRENADE LAUNCHERS		6AM	MA	00000000
HIN	H-93 WEAPON	75110	MADA	MAD	0
HIN	CONTROL BOX	7511A	MABB	MAB	8
HIN	POWER CAPLE	7511B	MABC	MAB	A
HIN	FEEDERS	7511C	OBAM	MAR	5
HIN	MOTOR	75110	MABE	MAS	Α
HIN	CHUTE LINK	75118	MABE	MAH	1
HIN	RELEASE PIN	7511F	MAHG	MAB	1
HIN	YOKE AND SADULE	7511G	MASH	MAB	1
HIN	MOUNT PINTLE	75111	MABJ	MAB	8
HIN	CAU-28/A GUN	75112	MARK	MAB	8
HIN	UPPER AMMED CAN SUPPORT	75113	MAHL	MAB	1
HIN	LOWER AMMO CAN SUPPORT	75114	MAHM	MAB	1
HIN	AMMU CAN COVERS	75115	MABN	MAB	3
HIN	CHUTES AMMU	75116	MABP	MAB	1
HIN	CHUTES AMMO SUPPORT	75117	MARO	MAB	1
HIN	CHUTE CABLE	75118	MARR	MAB	1
HIN	M-23 WEAPON	75120	MARS	MAB	0
HIN	GUN	75121	MABT	MAB	8
HIN	TAUOR	75122	MABU	MAB	8
HIN	EJECTION 946	75123	VEAM	BAM	0
HIN	AMMUNITION ACX	75124	MASW	MAD	1
HIV	AMMUNITION CHUTE	75125	MABX	BAM	1
HIN	XM-129 GRENAUE LAUNCHER	75360	MABY	ВАМ	0
HIN	LAUNCHER	7536A	MABZ	BAM	8
HIV	GUN CRADLE	75368	MAHLA	BAM	2
HIN	GUN DRIVE MOTOP	7536C	MABZS	MAB	A Children and the Co
HIN	GUN DRIVE ADAPTER	75360	MARZC	MAR	
HIN	AUAPTEP SHAFT	7536E	MABZD	MAB	THE RESIDENCE
HIN	AMMU CHUTE	7536F	MAHZE	MAG	
HIN	MAGAZINE	753eG	MARZE	MAH	
HIN	MAGAZINE DAUM MUTOP	7536H	MANZG	RAM	the first in land
HIN	CYNAMIC PRAKE	7536J	MAGZH	MAB	THE RESERVE OF THE PARTY OF THE
HIN	SWITCHES 2 FA	75130	MARZJ	MAR	THE STREET
HIN	APMAMENT POWER RELAYS 24	4221F	MABZK	MAB	
	HOCKET LAUNCH	75476	MACA	MA K	BADA IIIIIIII
HIN	EXT STIPES RACK EZEAC	7547A	MACE	MAC	0
HIN	SUPPORT ASSY "ZEAC	TOTTA	HACT	HAL	

PGG095.JIR1 DATE = 03/31/76

	00000011111111111222222222233 4567890123456789012345 77890				
HIN	CROSS BEAN REEAK	75473	MACC	MAC	0
HIN		7547C	MACO	MAC	ŏ
HIN	SUPPORT ARM KZEAC	75470	MACE	MAC	Ö
HIN	BUMB KACK PREAC	7547E	MACE	MAC	8
HIN	LAU-SAAR POCKET LAUNCHER		MACG	MAC	Č
HIN	YOKE	7513A	MACH	MAC	0
HIN	RACK	75138	MACJ	MAC	8
HIN.		7513C	MACK	MAC	8
HIN	SAFETY PIN	7513E	MACL	MAC	Ö
111000	ROCKET FIRE		MAD	MAC	K MAE AAAAAAAA
HIN	INTERVALUMETER 2 EA	75130	MALIA	MAD	8
HIN	POYARY SWITCH 2 EA	7513F	MADH	MAD	8
HIN	POD SWITCH 2 EA	7513K	MADC	MAD	Ā
HIN	RESET SHITCH 2 FA	7513N	MADD	MAD	Δ
	ROCKET LAUNCHER JETTISON		MAE	MAC	111111111 CAM
	SELECTIVE JETTISON		MAF	MAE	MAG 111111111
HIN	JETTISON SHITCH #3 EAC	7513L	MAFA	MAF	1
HIN	JETTISUN CKT BKR	42216	MAFB	MAF	8
HIN	RELAY	7513P	MAFC	MAF	Ā
	EMERGENCY JETTISON		MAG	MAE	K MAF AAAAAAAA
HIN	EMER JETT	75140	MAGA	MAG	0
HIN	HANCLE	7514A	MAGB	MAG	A
HIN	CASLF	75148	MAGC	MAG	A
HIN	CAGLE GUARD	7514C	MAGD	MAG	0
HIN	PULLEY	75140	MAGE	MAG	A
HIN	BELLCRANK	7514E	MAGE	MAG	A
HIV	SPRINS	7514F	MAGG	MAG	0
	ARMAMENT CONTROLS		MAH	MAB	FAAAAAAAA
	ARMAMENT CONTROLS		MAH	MAG	LAAAAAA
HIN	CONTROL PANEL	7513G	MAHA	MAH	9
HIN	MASTER SWITCH	7513H	МАНН	HAM	A
HIN	INDICATOR LIGHT	7513J	MAHC	MAH	0
HIN	SELECTOR SWITCH	7513M	CHAM	MAH	8
HIN	ARM CKT BKRS 2 EA	42216	MAHE	HAM	5
HIN	TROOP TRANSPORTATION		MB	M	00000000
HIN	LITTER KIT	12800	MBA	48	0
HIN	STANCHION	12PAA	EAM	MB	0
HIN	BRACKET	12648	MBC	MB	0
HIN	SHELF	12FAC	440	MB	0
HIN	PLATE	12FAD	MRE	MB	0
HIN	STHAP	126AE	MOF	MB	0
HIN	END FITTING	12PAF	M3G	MB	0
HIN	STPAP ROACKET	128AG	MRH	MB	0
HIN	LITTER COT	12HAH	MUJ	MB	0
HIN	SAFETY SELT	LATSI	MAK	MB	0
HIN	TROUP SEATS	12000	491	MB	0
HIN	HEADREST	12044	МЬМ	MB	0
HIN	HEADHEST COVER	12CAH	MAN	MR	0
HIN	FITTING	12CAC	MAP	MB	0
MIN	TOP WALL	12CAD	MAG	MA	0

PGG095.JIR1 DATE = 03/31/76

000000000111111111112222222222	333333333	3344444444	445555555555666666667777777777 830123456789012345578901234567890
HIN SACK BALL	12CAF	MHH	MB 0
HIN FRONT RAIL	12(AF	Mas	Mo O
HIN SIDE RAIL	12046	MAT	Mft 0
HIN SPREADER	12CAH	MILL	MB 0
HIN LEG BRACE	12043	M3V	MB 0
HI'I LEG	12CAK	MBW	мв с
HIN STANCHIEM	12CAL	MAX	MR 0
HIN SAFETY WELT	12(AM	MJY	мв 0
HIN COVER .4 MAN	12CAN	MBZ	MB 0
HIN COVER .2 MAY	12CAP	11824	MB 0
HIN COVER .1 MAD	12040	MAZS	MB 0
HIN STOWAGE STRAP	120 AR	MHZC	MA O
HIN EXTERNAL CAPCO SUSPENSION		MC A	CUAAAAAOO
HIN HOOK	12444	MCAA	MCA O
HIN YOKE	12448	ACAB	MCA 0
HIN SUMPER	12440	MCAC	MCA 0
HIN SHAFT	12AAU	MCAD	MAC 0
HIN SWIVEL HOUSING	12AAF	MCAE	MAC 0
HIN LINK	12AAG	MCAF	MAC 0
HIN CARGO RELEASE		MCB	MCA K BADA AAAAAAAA
HIN CARGO RELEASE		MCH	MCBX K FDA AAAAAAAA
HIN HUUK	12/44	МСВА	MCR A
HIN LEVER	12446	MCBB	MCR A
HIN DUMMY CARD TO AVOID DUP P	5.0	MCRX	MCA AAAAAAAA
HIN ELECTRICAL PELFASE		MCC	MC3 MCD 111111111
HIN ELECTRICAL CONTROLS	12A00	MCCA	MCC 0
HIN CIRCUIT FIEAKER	12484	MCCS	MCC 8
HIN ARMING SWITCH	12448	MCCC	MCC A
MIN RELEASE SAITCH \$2 EAK	1245C	MCCO	MCC 1
HIN ARMED LIGHT	12ABD	MCCE	MCC 0
HIN LAMP	12ABE	MCCF	MCC 0
HIN PELEASE RELAY	LZARF	MCCG	MCC A
HIN STUSH	12VHC	MCCH	MCC 8
HIM SLIPALIG	12ABH	MCCJ	MCC B
HIT MECHANICAL WELFASE		ACO	MCB K MCC AAAAAAAA
HIM UPPER CONTROL CAREL	12AAH	MCDA	MCD A
HIN LOWER CHNTROL CARLS	15447	MCOB	MCD
HIN MECHANICAL CONTROLS	12460	MCOC	MCD 0
HIN PEDAL	LZACA	MCDD	MCD 1
HIN PEDAL STOP	12/08	MCDE	MCD 0
HI'Y CARLE	12400	MCDE	MCO A
HIT CASLE COMMECTUR	12400	MCDG	MCO A
HIN CARLS GUIDE	IZACE	MCDH	MCD 1
HI'4 SPRI'IG	12 ACF	MCDJ	MCO C
HIN PULLEY	12ACG	MCOK	PC3
HIN PULLEY BRACKET	LZACH	MCDL	MCD 1
HIN LOUDSPEKER SYSTEM		MU	
HIN SPEAKER AMPLIFIER	69110	MDA	MD 0
HIN SPEAKERS 124 EAC	6911A	400	MD 1
HIN REMOTE CONTROL UNIT	69110	MUC	MO 8

PGG095.J1R1	DATE =	C3/31/76

000000000111111111112727222222				
HIN DISTRIBUTION PANEL	09110	MDO	MD	8
HIN AMPLIFILHS 63 EAC	69110	405	MD	3
HIN MICHOPHONE	6512A	MDF	MU	A
HIN SPEAKER SUPPORT	69128	MI)G	ND	i
HIN TAPE RECORDER	6912C	MDH	MD	ì
HIN CABLE	69120	LOM	MD	8
HIN PONER PELAY	6912E	MDK	MD	A
HIN OVERLOAD CONTROL	6912F	MOL	MD	5
HIN CKT SKR LINDSPEAKER	4221G	MOM	MD	8
HIN HOIST OPERATION		ME	м	000000000
HIN HOIST ACTUATION		MEA	ME	AAAAAAA
HIN POST	4921A	MEAA	MEA	1
HIN BOOM	49218	MEAB	MEA	1
HIN ACTUATOR	4921C	MEAC	MEA	8
HIN ACTUATOR LEVER	4921D	MEAD	MEA	8
HIN ACTUATOR PLATE	4921E	MEAE	MEA	1
HIN QUICK DISCONNECT ADAPTER	49215	MEAF	MEA	1
HIN TURNBUCKLE BRACE	49216	MEAG	MEA	1
HIN BOOM COVER	4921H	MEAH	MEA	0
HIN CABLE GUIDE	4921J	MEAJ	MEA	1
HIN ROLLER	4921K	MEAK	MEA	1
HIN PULLEY	4921L	MEAL	MEA	1
HIN CARLE	4421M	MEAM	MEA	A
HIN WINCH	4921N	MEAN	MEA	A
HIN HOOK	4921P	MEAP	MEA	5
HIN TRIGGER	49210	MEAQ	MEA	1
HIN TRACTION SHEAVE	4921R	MEAR	MEA	8
HIN PRESSURE POLLER	44215	MEAS	MEA	1
HIN GUILLOTINE	49217	MFAT	MEA	0
HIN HOISTING VEST	49210	MEAU	MEA	0
HIN SAFETY VEST	4921V	MEAV	MEA	0
HIN SAFETY STRAP	4921W	WE 7M	MFA	0
HIN GUILLOTINE CHARGE	27116	MEAX	MEA	0
HIN FOREST PENETRATOR	49300	MEAY	MEA	1
HIN COVER	4931A	MFAZ	MEA	0
HIR STRAP	49318	MEAZA	MEA	0
HIN SPRING	49316	MEAZS	MEA	0
HIN HUPSE COLLAR	49400	MEAZC	MEA	1
HIN STOKES LITTER	49500	MEAZO	MEA	1
HIN CABLE	4951A	MFALE	MEA	0
HIN CLAMP	4951R	MEAZF	MEA	0
MIN D-RING	4951C	MEAZG	MEA	0
HIN STRAP	4951D	MENZH	MFA	0
HIN HOIST CONTROLS		MER	ME	LAAAAAAA
MIN ELECTRICAL CONTROLS	49720	HERA	MEB	0
HIS CIRCUIT PREAKER	4922A	MEBB	MER	
MIN PILOT CONTROL SAITCH	49228	MEBC	MEB	
HIN GUILLOTINE SWITCH	4422C	MEAD	MEB	0
HIM POWER HELAY	49220	ME DE	MER	
HIN OVERLOAD CONTROL SWITCH	4722E	MERF	WER	•

PGG095.JIR1 04TE = 33/31/76

HIN RETRACT LIMIT SWITCH	44.224	MERG	MEG	0
HIN EXTEND LIMIT SELICH	49726	MEBH	MFB	8
HIN CANTER PENDANT	4672H	MEHJ	MEB	А
HIN PERMANT CASLE	49223	MERK	MES	d
HIN CONTROL BUA	4922K	MEML	rt3	8
HIN 20 FEET WARNING LIGHT	4927L	MERM	MER	0
HIN LAMP	492211	MEBN	MEB	0
HIN LANDING GEAR		N		ΑΑΑΑΑΑΑΑ
HIN GEAR SUPPORT		VA	N	000000000
HIN CROSS TUBE FWD	13114	NAA	NA	1
HIN CROSS TURE AFT	13118	MAH	AIT	1
HIM STRAP	13110	NAC	NA	1
HIN SKID GEAR		NB	N	00000000
HIN SKID GEAR	13110	NBA	NB	0
HIN SKID TURE	13110	NOR	NB	1
HIN SKID SHOE	13116	NBC	NB	0
HIN CAP	1311G	NBD	NB	0
HIN STEP	1311H	NBE	NB	O
MIN SADDLE	1311J	NAF	NB	1
HINZSV AC BUS		UAA	BDC	ΑΔΑΔΑΔΑ
H1 126V AC 3US		UAA	BEC	ΑΔΑΔΑΔΑΔΑ
H14 264 4C 408		UAA	BFC	AAAAAAAA
HIN 26V AC BUS		UAA	BFF	ΑΔΑΛΑΔΑ
HIN 26VOLT AC		UAA	CCE	ΑΑΑΑΑΑΑ
HIN 26VILT AC		UAA	CCN	FAAAAAAAA
HIN ZOVOLT AC		UAA	CCRb	FAAAAAAAA
HIN I ISTRUMENT TRANSFORMER	4231J	UAAA	UAA	4
HIN XFM9 CKT BKF	4241C	UAAB	BAJ	1
HIN ESS AC MUS		UAG	BFY	
HIN ESS AC OUS		UAB	BFP	FAAAAAAAA
HIN ESSENTIAL AC		UAB	CCN	AAAAAAAA
HIN ESSENTIAL AC		UAB	CCPB	ΛΑΛΑΔΑΑΑ
HIN ESSENTIAL AC BUS		UAB	DBCA	ΑΑΑΑΑΑΑΑ
HIN ESSENTIAL AC BUS		UAB	DBEC	ΛΑΑΑΑΑΑΑ
HIN ESSENTIAL AC BUS		UAB	EAT	ΑΔΑΔΑΔΑΔ
HIN ESSENTIAL AC BUS		UAB	AAU	AAAAAAAA
HI'V ESSETTIAL AC BUS		UAB	UAF	FAAAAAAAA
HIN ESSENTIAL BUS	4241A	UABA	UAB	1
HIN AC POWER RELAY	4231H	UAPB	UAB	
HIN AN ESSENTIAL AC		UAC	CCAB	AAAAAAAA
HIN NON ESS AC BUS		UAC	DEC	AAAAAAAA
HIN NON ESSENTIAL HUS	42418	UACA	UAC	1
HIN AC PUNER RELAY	4231H	UACB	UAC	
HIN MAIN AC SOUPCE		UAU	UAB	UAG 111111111
HIN AC POWER SUPPLY	42310	UADA	UAD	0
HIN MAIN INVERTER	42314	UADB	UAD	
HIN MAIN TWENTED CVEHLIAD CO		UADC	UAD	5
HIN MAIN INVERTER PINES WELAY		UAUO	UAD	A
HIN INVERTER CONTECT SHITCH	42316	UADE	UAD	

PGG095.J141	DATE	=	33/31/76

00000000011111111112222222223	3333333	33444444444455555	55555666666666	667777777777
			UND	1
HIN MAIN INV CKT CHKK	4271G	UADE	UAC	AAAAAAAA
HI'S STAMORY AC STURCE				
HIM STANDAY AC SCUPCE		UAE	UAG	ΑΔΑΔΑΔΔΔ
HIN STANDAY INVERTER	42310	UAFA	UVE	A
HIN STAY INV OVERLOAD CONTROL		UAEB	UAE	5
HIN STAY INV PUNER KELAY	4231F	UAFC	UAE	A
HIN STRY INV CKT BKR	42216	UAFD	UAE	1
HIM INVERTER CONTROL SWITCH	42316	UNEF	UAE	5
HIN AC POWER STATUS		UAF	UAG	111111111
HIN VOLTMETER	4251A	UIFA	UAF	
HIN AC FATLURE RELAY	4251E	UAFB	UAF	1
HIN SEGMENT	4432E	UAFH	UAF	1
HIN LAMP	4432F	UAFJ	UAF	1
HIN STANDBY AC POWER		UAG	UAR K UAT	
HIN ESS OC BUS		UDA	BABG	ΔΔΔΔΔΔΔΔ
HIN ESS OC BUS		UDA	BAPE	AAAAAAAA
HIN ESS DC SUS		UDA	BAQC	ΑΑΑΑΑΑΑΑ
HIN ESS DC BUS		UDA	360	
HIM ESS DC BUS		UDA	BBG	FAAAAAAAAA
HIN ESS OC BUS		UDA	8BK	AAAAAAAA
HIN ESS OC BUS		AGU	BCE	AAAAAAAA
HIN ESS DC BUS		UDA	800	ΑΑΑΑΑΑΑΑ
HIN ESS OC BUS		UDA	ADE	SAAAAAAAA
HIN ESS OC AUS		UUA	BDF	FAAAAAAAAA
HIN FSS JC BUS		UDA	ADG	FAAAAAAAA
HIV ESS OC BUS		UDA	BOH	ΔΑΔΑΔΑΔΑ
HIN ESS DC BUS		UDA	BED	AAAAAAAA
HIN ESS OC BUS		UDA	BEE	LALALAAAA
HIN ESS OC RUS		AGU	REG	AAAAAAAAA
HIN ESS OC BUS		UDA	BFO	AAAAAAAA
HI'V ESS OC BUS		UDA	HFE	ΛΛΛΑΔΑΔΑΛ
HIN ESS OC BUS		UDA	3FR	AAAAAAAA
HIN ESSENTIAL OC		UDA	CAA	AAAAAAAA
HIN ESSENTIAL DC		UDA	CB	ΛΑΑΑΑΑΑΑ
HIN ESSENCIAL DC HUS		AGU	CCL	\$88888888
HIN ESSENTIAL DC		UDA	CCM	FAAAAAAAA
HIM ESSENTIAL DC		UCA	CCPA	FAAAAAAAAA
HIN ESSENDIAL OC BUS		UDA	CCP3	FAAAAAAAAA
HIM ESSENTIAL DC		UDA	CCR	FAAAAAAAA
HIS ESSECTIAL DC BUS		UDA	DAB	AAAAAAAA
HIN ESSENTIAL DC BUS		UDA	DAC	FAAAAAAAA
HIV SSENTIAL SC 3US		NON	CAO	AAAAAAAA
HIN ESSENTIAL OC AUS		UDA	EAA	AAAAAAAA
HIN FASSITIAL UC dus		UDA	EAR	FAAAAAAAAA
HIN ESSENTIAL DE AUS		UDA	EAS	FAAAAAAAA
HIN ESSENTIAL DC BUS		UDA	EAU	AAAAAAAA
HIN ESSENTIAL DC AUS		UDA	ERC	AAAAAAAA
HI'I ESSENTIAL DC BUS		ACU	EBG	AAAAAAAA
HIN ESSENTIAL DE BUS		UDA	ECS	AAAAAAAA
HI'V ESSENTIAL DE BUS		UDA	FCF	AAAAAAAA

PGG095.JTR1 DATE = 03/31/76	FL I	GHT SAFFTY PR	EDICTION TECHNIO
00000000111111111122222222233333333			
1234567893123456789012545678901234567			
MIN ESSENTIAL OC AUS	UDA	LFD)	FAAAAAAAA
HIN ESSENTIAL DC AUS	UDA	RFDD	FAAAAAAAA
MIN ESSENTIAL OCAUS	UDA	444	FAAAAAAAA
HIN ESSENTIAL DCAUS	UDA	MAF .	FANAAAAAA
MIN ESSENTIAL DERUS	UDA	HAM	ΑΛΑΛΑΛΑ
HIN ESSENTIAL DC HUS	UDA	MCC	AAAAAAA
HIN ESSENTIAL OC BUS	UDA	UAD	AAAAAAAA
HIN ESSENTIAL BUS 4221A	UDAA	UDA	1
HIN NOT ESS OC	UUB	BBC	AAAAAAAA
HIN NON ESSENTIAL DC BUS	UDB	EAV	ΑΑΑΛΑΑΑΛΑ
HIN NONESSENTIAL DC BUS	005	MD.	ΑΛΑΑΛΑΔΑΑ
HIN NON ESSENTIAL DC BUS	UOB	MES	ΑΔΑΛΑΑΑΑ
그리고 아무슨 그들이 하는 사람들이 있다는 사람들은 그들이 가장 그렇게 되었다면 하는 것이 되었다. 그런 그리고 있는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다.	UDB UDBA	UAE	AAAAAAAA
가 보고 10개(1977) : 1 : 10 : 10 : 10 : 10 : 10 : 10 : 10		UDB	
이 보고 있다면 그 이 그는	U048	600	A
HIM NON ESSENTIAL BUS SWITCH 4221E	003C	003	A
HIN MAIN DC BUS	UDC	BAAG	SAAAAAAAA
HIN MAIN DC BUS	UDC	BAPE	SAAAAAAAA
HIN MAIN OC HUS		300	SAAAAAAAA
HIN MAIN DC BUS	UDC	38C 380	SAAAAAAAA
HIN MAIN OC BUS	UDC	BBH	SAAAAAAAAA
HIN MAIN OC BUS	UDC	BCE	SAAAAAAAAA
HIN MAIN OC HUS	UUC	808	SAAAAAAAA
HIN MAIN DC BUS	Unc	BDE	SAAAAAAAA
HIN MAIN DC BUS	UDC	BDH	SAAAAAAAA
HIN MAIN DC BUS	UDC	BEB	SAAAAAAAAA
HIN MAIN DC BUS	Unc	BEE	SANANANAA
HIN MAIN DC BUS	UUC	PEG	SAAAAAAAA
HIN MAIN OC BUS	UDC	BFB	SAAAAAAA
HIN MAIN DC BUS	UDC	BFE	SAAAAAAAAA
HIN MAIN DC BUS	UOC	BFF	SAAAAAAAA
HIN MAIN DC BUS	UDC	BFY	SAAAAAAAA
HIN MAIN OC BUS	UDC	BFR	SAAAAAAAA
HIN MAIN OC BUS	UOC	CAA	SAAAAAAAA
HIN MAIN OC HUS	UDC	CB	SAAAAAAAA
HIN MAIN OC RUS	UDC	CCD	SAAAAAAAA
HIN MAIN DC BUS	UDC	DAR	SAAAAAAAA
HIN MAIN DC BUS	UOC	CAO	SAAAAAAAA
HIN MAIN DC RUS	UDC	DBCA	AAAAAAAA
HIN MAIN OC AUS	UDC	DBEC	SAAAAAAAAA
MIN MAIN OC HUS	UDC	EAA	SAAAAAAAA
HIN MAIN DC HUS	UDC	EAQ	CCACOOOOS
HIN MAIN DC BUS	UDC	EBC	SAAAAAAAA
HIN MAIN DC BUS	UDC	EBG	SAAAAAAAA
HIN MAIN OC HUS	UDC	ECB	SAAAAAAAA
MIN MAIN DC BUS	UDC	FCF	SAAAAAAAA
HIN MAIN UC RUS	UDC	MAB	FAAAAAAAA
HIN MAIN DC BUS	UDC	MAH	SAAAAAAAA
HIN MAIN DC BUS	UDC	MCC	SAAAAAAAA

PGG095.JIR1 DATE = 03/31/76

FLIGHT SAFFTY PREDICTION TECHNIQUE

0000000011111111117222222223333333333333							
HIN	MAIN DE PUS		UDC	N.D			SAAAAAAAA
HIN	MAIN OC HUS		unc	MEH			SAAAAAAAA
HIN	MAIN DC BUS		UDC	UDA			FAAAAAAAA
HIN	MAIN OC BUS		UDC	000			FAAAAAAAA
HIN	DC FOWER SUPPLY	42110	UDCA	UDC			0
HIN	OC POWER DISTRIBUTION	42210	บอดส	UUC			0
HIN	NORMAL DC SOURCE		บวง	UOC		NOE	33333333
HIN	EMERGENCY SOURCE		UDE	BAN			ΔΑΔΑΔΑΔΑ
HIN	EMERGENCY SOURCE		UDE	UDC	K	OOU	ΑΛΑΑΑΑΑΑ
HIN	BATTERY	42114	UDEA	UDE			8
HIN	BATTERY RELAY	42110	UDEB	UDF			A
HIN	BATTERY SNITCH	4211E	UDEC	UDE			A
HIN	BATTERY DISCONNECT	42118	ULFD	UDE			5
HIN	SATTERY VENT HOSES	4211C	UDEF	UDE			1
HIN	BATTERY CONTAINER	42111	UNEF	UDE			0
HIN	GRITUND PIWER		UDF	BAN			000000000
HIN	GOODING POLICE		UDF	UDC			000000000
HIN	EXT PER RECEPTACLE	42116	UDFA	UDF			1
HIN	EXT PAR RELAY	4211H	UDEB	UDF			A
HIN	EXT PAR DIGUE	4211J	UDFC	UCF			1
HIN	EXT PAR DOOR LIMIT SWITCH	42510	UDFO	UDF			0
HIN	ONE GENERATOR POLLS		UDG	ULD	K	HOU	ΑΛΑΛΑΑΛΑ
HIN	ONE GENERATOR PENER		UDG	UDH			SAAAAAAAA
HIN	STARTER GENERATOR	4211K	UDGA	UDG			A
HIN	CORLING AIR DUCT	4211L	UDGR	UDG			0
HIN	GENERATUR SWITCH	4211%	UDGC	UDG			A
HIN	GEN FIELD CONTROL RELAY	4211N	UDGD	UDG			A
HIN	VOLTAGE REGULATOR	4211P	UDGE	UDG			8
HIN	VOLTAGE RHEOSTAT	42110	Unge	UNG			8
HIN	OVERVOLTAGE PELAY	42118	UJGG	UDG			5
HIN	REVERSE CURRENT PELAY	42115	UDGH	UDG			5
HIN	STARTER GENERATOR CONTROL	42111	0.063	UDG			1
HIN	SHUNT CONTROL RELAY	42110	UDGK	UDG			1 1 2 2 2 2 2
HIN	BUS CONTROL RELAY	4221C	UDGL	UDG			A
HIN	GEN CKT BKRS "2 EAK	42216	UDGM	UDG			1
HIM	STARTER GEARSHAFT	224LG	UDGN	UDG			A
	ONE GENERATOR FAILED		UDH	UDH			FAAAAAAAAA
	DC POWER STATUS		UDJ	UDC			000000000
HIM	DUAL VOLTMETER	4251A	UDJA	UDJ			1
HIN	VOLTMETER SELECT SWITCH	42518	กงาห	UDJ			i
HIN	DUAL AMMETER	4251C	กบาต	UDJ			ī
HIN	SEGMENT	44326	UDJF	UDJ			ī
HIN	LAMP	4432F	UDJG	LOU			1
				000			

CARD COUNT IS 00001692. CARDS WITH ERRORS 00000000